

TABLE OF CONTENTS

IMF	PORTA	NT RE	MINDERS FOR 2008-2009	iii	
1.	VIRG	INIA AL	TERNATE ASSESSMENT PROGRAM DESCRIPTION	1	
2.	VAAF	WITHI	N THE STATE ACCOUNTABILITY SYSTEM	1	
3.	SCHO	OOL DIV	/ISION RESPONSIBILITIES FOR THE VAAP	3	
4.	4.1 4.2 4.3 4.4	Determ Becom Identify	DR PARTICIPATION IN THE VAAP nine Student Eligibility re Familiar with Special Accommodations r Students for the VAAP Parents about the VAAP	4 4 4	
5.	PROC	CEDURE	ES FOR THE VAAP	6	
	5.1 5.2 5.3	Examir	nent the Aligned Standards of Learningne Reporting Categories	7	
6.	COLL		N OF EVIDENCE		
	6.1	•	onents of a Collection of Evidence		
	6.2		Evidence of Student Achievement		
	6.3	6.3.1	Varied Types of Evidence		
		6.3.1	Work Sample Audio		
		6.3.3	Video		
		6.3.4	Anecdotal Record		
		6.3.5	Interview	12	
		6.3.6	Data Chart/Graph		
		6.3.7	Captioned Photograph	13	
	6.4	Comple	ete Documentation Forms for the COE		
		6.4.1	Prepare the VAAP Content Area Cover Sheet(s)		
		6.4.2	Sign Affidavit of Student Performance		
	6.5	Organize the COE			
	6.6	Inspect	the COE Before Submitting to the School Coordinator	13	
7.	VAAF		ING PROCESS		
	7.1		g Rubrics		
	7.2		g Considerations		
	7.3		al VAAP Scoring Rules		
	7.4	_	he Scoring Rubric for Student Performance		
		7.4.1 7.4.2	Example A – Evidence received a score report of "1"		
		7.4.2	Example C – Evidence received a score report of "4"		

TABLE OF CONTENTS

Continued

	7.5	Scorers' R	esponsibilities	19
	7.6	VAAP Sco	ores	19
8.	AUDI	TS AND S	CORE CORRECTION	20
	8.1	VAAP Aud	dit Process	20
	8.2	VAAP Sco	ore Correction Process	20
			APPENDICES	
ΑP	PENDI	X A.	Frequently Asked Questions by Teachers	23
			2008-2009 Participation Criteria Form	25
ΑP	PENDI	XB.	Reading Aligned Standards of Learning	27
			Mathematics Aligned Standards of Learning	34
			Science Aligned Standards of Learning	51
			History and Social Science Aligned Standards of Learning	67
ΑP	PENDI	X C.	2008-2009 Collection of Evidence Scoring Worksheet	83
ΑP	PENDI	X D.	2008-2009 Content Area Cover Sheet	87
ΑP	PENDI	X E.	2008-2009 Affidavit of Student Performance	91
ΑP	PENDI	X F.	2008-2009 VAAP Checklists for Collection of Evidence	95
			TABLES	
			TABLES	
	Tabl	e 1.	Virginia Assessment Program Options for Students with Disabilities	2
	Tabl	e 2.	ASOL Reporting Categories	
	Tabl	е 3.	VAAP Scoring Rubric	
	Tabl	e 4.	VAAP Scoring Rubric Addendum	15

IMPORTANT REMINDERS FOR 2008-2009

Carefully review this *VAAP Implementation Manual* in addition to other related resources identified within and resources provided by your school division. Please pay attention to the following:

Manual Format

- The *VAAP Implementation Manual* is a guide primarily for teachers who are providing instruction to students who are participating in the VAAP. It includes the following information:
 - (1) program description
 - (2) roles and responsibilities of staff
 - (3) participation criteria
 - (4) implementation procedures
 - (5) guidelines for preparing evidence
 - (6) scoring system
 - (7) score correction process
 - (8) frequently asked questions by teachers
 - (9) Aligned Standards of Learning
 - (10) forms

NOTE: Please destroy all 2007-2008 VAAP Implementation Manuals.

VAAP Aligned Standards of Learning (ASOLs)

• The VAAP Aligned Standards of Learning, organized by content area and reporting categories, are located in Appendix B and the Virginia Department of Education's Web site:

www.doe.virginia.gov/VDOE/Assessment/home.shtml

• If an ASOL has multiple bullets, students may be assessed only one time on each of the separate ASOL bullets. When an ASOL has multiple bullets, any bullets previously assessed in a VAAP administration for a certain student cannot be assessed again for that same student (Section 5.1).

Documentation Forms

- The VAAP Content Area Cover Sheet (Appendix D) should be completed for each content area submitted in the collection.
- Provide only one signed *Affidavit of Student Performance* for the entire Collection of Evidence.

Collection of Evidence (COE)

• For the 2009 Spring Administration, items submitted in the COE must have the *Student Evidence Identification* (SEI) Tag:

VAAP STUDENT EVIDENCE IDENTIFICATION (SEI) TAG

Content Area: Mathematics

ASOL: M-NS-1

Bullet:

The SEI Tags may be ordered from Pearson via PEMSolutions and downloaded from the Virginia Department of Education's Web site at

www.doe.virginia.gov/VDOE/Assessment/VAAP/SEITemplate.doc

IMPORTANT REMINDERS FOR 2008- 2009, continued

Content Requirements

• All students participating in the VAAP are required to submit evidence for reading, mathematics, and science. Under the requirements of *No Child Left Behind Act of 2001* (NCLB), states must assess science at least once at the elementary level, once at the middle level, and once at the high school level. The Virginia Department of Education strongly recommends submission of evidence in a content area if an SOL assessment is administered for that grade level and content area.

1. VIRGINIA ALTERNATE ASSESSMENT PROGRAM DESCRIPTION

The Virginia Alternate Assessment Program (VAAP) is designed to evaluate the performance of students with significant cognitive disabilities. The VAAP is available to students in grades 3 through 8 and students in grade 11 who are working on academic standards that have been reduced in complexity and depth. This content is derived from the Standards of Learning (SOL) and is referred to as the Aligned Standards of Learning (ASOLs). Individual student achievement of academic skills is the single focus of the VAAP. Although functional skills such as self care, leisure activities, and domestic skills are important components of educational programs designed for students with significant cognitive disabilities, these skills are **not** evaluated in the VAAP.

Only students with significant cognitive disabilities may be considered appropriate participants for the VAAP. Students participating in the VAAP may fulfill federal participation requirements by submitting collections of evidence for the content areas of reading, mathematics, and science. Finally, the Virginia Department of Education strongly recommends submission of evidence in a content area if an SOL assessment is administered for that grade level and content area

Components of the VAAP

The VAAP consists of the following five components:

- Determination of Eligibility
 Using VAAP eligibility criteria, the IEP team examines how the student with significant cognitive disabilities accesses instruction and content and demonstrates the knowledge and skills.
- Use of Aligned Standards of Learning (ASOLs)
 ASOLs are academic standards that have been derived from the SOL. The ASOLs provide students with significant cognitive disabilities with access to cross-grade level SOL content that has been reduced in complexity and depth. Appropriate content-level standards have been identified for each content area: reading, mathematics, science, and history and social science.
- © Collection of Evidence (COE)
 Students participating in the VAAP must compile a collection of work samples to demonstrate performance on the ASOLs for which they have received instruction.
- 4 VAAP Content Area Cover Sheet The student's COE must include a cover sheet for each content area within the collection.
- Affidavit of Student Performance
 An *Affidavit of Student Performance* must be completed and provided for the entire COE. The affidavit will ensure that all evidence presented is the student's individual work and that it was completed under the supervision of the special education teacher or other school personnel.

2. VAAP WITHIN THE STATE ACCOUNTABILITY SYSTEM

Under the *Individuals with Disabilities Education Improvement Act of 2004* (IDEIA), P.L. 108-446, and the *No Child Left Behind Act of 2001*, (NCLB), P.L.107-110, students with the most significant cognitive disabilities may be assessed on state established content standards through an alternate assessment. NCLB guidance allows states to address this instructional challenge by developing grade-level state standards that have been "reduced in complexity and depth." This concept is referred to as aligning content level standards. The concept of aligned content level standards for students with significant cognitive disabilities has been addressed in the design and implementation of VAAP.

The Virginia Assessment Program provides a number of assessment options for students with disabilities to participate in the accountability system. Using eligibility criteria, the IEP team must determine participation in either the SOL assessments or the VAAP.

Table 1. Virginia Assessment Program Options for Students with Disabilities

Content Standards	Assessment Options	Available to Students		
	SOL Assessments without accommodations	Grades 3-8 and EOC tests		
	SOL Assessments with accommodations	Grades 3-8 and EOC tests		
Standards of Learning (SOL)	Virginia Substitute Evaluation Program (VSEP) /Verified Credit for Standard and Advanced Studies Diploma options (Student submits a Course Work Compilation)	End-of-Course (EOC) tests		
	VSEP/Literacy and Numeracy Certification for Modified Standard Diploma option (Student submits a Course Work Compilation)	Grade 8 Reading and Mathematics tests		
	*State-approved substitute tests for verified credits	EOC tests		
	or literacy and numeracy certification	Grade 8 Reading and Mathematics tests		
	Virginia Grade Level Alternative (VGLA) (Student submits a Collection of Evidence)	Grades 3-8 subject area content		
Aligned Standards of Learning (ASOL)	Virginia Alternate Assessment Program (VAAP) (Student submits a Collection of Evidence)	Grades 3-8 and Grade 11 for Reading, Mathematics, Science and History/Social Science subject area content		

^{*}Current list of state-approved substitute tests are located at: www.doe.virginia.gov/VDOE/Assessment/SubTestChart.pdf

3. SCHOOL DIVISION RESPONSIBILITIES FOR THE VAAP

Many school division personnel are responsible for the implementation of the VAAP. These include:

- Division Director of Testing (DDOT)
- Director of Special Education
- School Coordinator
- Special Education Teacher

A brief explanation of the roles and responsibilities of each of these persons follows.

Division Director of Testing

Each division has designated a Division Director of Testing (DDOT). The DDOT serves as the point of contact between the school division and the Virginia Department of Education and Pearson. The DDOT has divisionwide responsibility for implementation of VAAP requirements and procedures and the dissemination of VAAP reports.

Director of Special Education

In addition to being familiar with VAAP requirements and procedures, Directors of Special Education must identify and address the professional development and support needs of special education and related services personnel involved in the VAAP COE.

The Director of Special Education and the DDOT are encouraged to share responsibilities for planning and ensuring that appropriate training and materials are provided to teachers and all other division staff responsible for the implementation of VAAP.

School Coordinator

The School Coordinator is the person designated within each school to serve as the point of contact between the DDOT and the school. The School Coordinator is responsible for ensuring that all procedures required for the VAAP are implemented within the school. The School Coordinator may be asked to monitor the development and progress of the COE to ensure that the Aligned Standards of Learning are addressed. Any questions the School Coordinator has regarding the VAAP are to be directed to the DDOT or Director of Special Education.

Special Education Teacher

The Special Education Teacher is responsible for implementing the VAAP guidelines according to the procedures contained in this manual. Other staff members, including paraprofessional, general education teachers, and related services personnel may assist the Special Education Teacher in providing instruction and collecting evidence. The remaining sections of this manual contain more specific information about the teacher's duties and responsibilities for the VAAP. The Special Education Teacher is responsible for overseeing and/or selecting appropriate ASOLs, providing effective instruction, and collecting evidence of student achievement. Any questions the Special Education Teacher has regarding the VAAP are to be directed to the School Coordinator.

4. CRITERIA FOR PARTICIPATION IN THE VAAP

4.1 Determine Student Eligibility

A student recommended for the VAAP:

- must have a current IEP or one that is being developed;
- must demonstrate significant cognitive disabilities;
- must have a present level of performance that indicates the need for extensive, direct instruction and/or
 intervention in a curriculum framework based on ASOLs. The present level of
 performance or student evaluation may also include personal management, recreation and leisure,
 school and community, vocational, communication, social competence and/or motor skills;
- requires intensive, frequent, and individualized instruction in a variety of settings to show interaction and achievement; and
- is working toward educational goals other than those prescribed for a Modified Standard Diploma, Standard Diploma, or Advanced Studies Diploma.

Students participating in the VAAP *must* be enrolled in grades 3 through 8 or grade 11. The IEP team has the responsibility for making the decision regarding participation in the VAAP. In exercising this responsibility, all IEP teams are required to use the criteria for participation outlined above. The *2008-2009 VAAP Participation Criteria Form* is in Appendix A.

4.2 Become Familiar with Special Accommodations

In considering possible participation in the VAAP, IEP team members need to be sure that all possible SOL test accommodations have been examined within the student's program in order to provide access to content and assessment within the specific SOL course.

4.3 Identify Students for the VAAP

If the student fails to meet one of the criteria (Section 4.1) for participation, the VAAP is not appropriate for this student and he/she must be considered for participation in the SOL assessments, the Virginia Grade Level Alternative (VGLA), and/or the Virginia Substitute Evaluation Program (VSEP). The participation criteria are designed to guide IEP teams in identifying the population of students with significant cognitive disabilities who are unable to be assessed using the SOL tests even with accommodations or the VGLA assessment. All students, regardless of their disability, must be assessed in reading, mathematics, and science. Students must complete a collection of evidence in science at each level of their education: at least once in elementary school, middle school, and high school. Only the student's IEP team may determine non-participation in the assessments for grades 3 through 8 in the content areas of history/social science. If it is determined that it is not appropriate for the student to participate in history/social science assessments, the consequences of this decision must be fully explained to and understood by the student's parent, legal guardian, or surrogate parent, and the student.

When considering students for the VAAP, IEP teams are advised to consider information such as, but not limited to, educational evaluations, psychological reports, teacher observation, etc.

The IEP team decision about participation in the VAAP shall be documented in the student's IEP. All information pertaining to the student's participation in the VAAP shall be maintained in accordance with §22.1-289 of the Code of Virginia and Board of Education Regulations 8VAC20-150-10 (Transfer and Management of Scholastic Records).

4.4 Inform Parents about the VAAP

Local school divisions are responsible for informing parents of students with significant cognitive disabilities that the student qualifies for VAAP. They are to communicate how evidence of student achievement will be collected, the types of evidence needed, and the conditions for gathering such evidence. If photographs, videos, or audios are to be submitted as a type of evidence, school divisions must obtain written parental consent. Consent should be maintained on file in the school division.

Parent information is available from Parent Resource Centers, DDOTs, Directors of Special Education, and the Virginia Department of Education, Division of Student Assessment and School Improvement.

5. PROCEDURES FOR THE VAAP

5.1 Implement the Aligned Standards of Learning

The VAAP is available to students with significant cognitive disabilities in the following content areas:

- reading
- mathematics
- science
- history/social science.

Appropriate content level standards have been identified for each content area. These content level standards are referred to as *Aligned Standards of Learning* (ASOLs). The ASOLs provide students with significant cognitive disabilities access to cross-grade level SOL content that has been reduced in depth and complexity.

The format of an ASOL typically includes a stem statement and related sub-statements referred to as bullets. Some ASOLs may only have a stem statement. See examples that follow:

Reading ASOL E-RW7 is an example with only a stem:

The student will read familiar stories, poems, and passages with fluency and expression.

If the Reading ASOL-E-RW7 is selected, evidence of the student's achievement of the **stem** must be provided.

Reading ASOL – E-RW8 is an example with a stem and bullets:

The student will use simple reference materials.

- a) Use knowledge of alphabetical order by first letter.
- b) Use a picture dictionary to find meanings of unfamiliar words.

If the Reading ASOL E-RW8 is selected, the student must show evidence of the <u>stem</u> and <u>one</u> of the bullets, (a) or (b).

If an ASOL has multiple bullets, a student may be assessed only one time on each of the separate ASOL bullets. For example, if during the 2007-2008 VAAP administration, a student was assessed on ASOL **ERW2 (b):** *The student will demonstrate an understanding that print makes sense, identify common signs and logos*, then in a future administration, this student may only be assessed on different bullets under ASOL ERW2 such as:

ERW2 (a) – Explain that printed materials provide information

ERW2 (c) - Read ten high-frequency words

ERW2 (d) - Read and explain own writings and drawings

When an ASOL has multiple bullets of content, any bullets previously assessed in a VAAP administration for a student **cannot** be assessed again for that same student. For example, if during a VAAP administration the student is assessed on M-NS2 (a): *The student, given a set containing 10 or fewer concrete items, will tell how many are in the set by counting the number of items orally*, the student may **not** be reassessed on this specific ASOL bullet in a subsequent VAAP administration.

5.2 Examine Reporting Categories

Each content area is organized in strands called *Reporting Categories*. ASOLs are grouped into Reporting Categories that address related content or skills at each grade level and correspond to the SOL. For example, a Reporting Category for the mathematics test is *Computation and Estimation*. Each of the ASOLs in this Reporting Category addresses computation using addition, subtraction, multiplication, or division, or requires the student to estimate the answer to a problem. Table 2 lists the ASOLs Reporting Categories for each content area.

Table 2. ASOL Reporting Categories

Content Area	ASOL Reporting Category
Reading	Use Word Analysis Strategies and Information Resources
	Demonstrate Comprehension of Printed Materials
Mathematics	Number and Number Sense
	Computation and Estimation
	Measurement and Geometry
	Probability and Statistics
	Patterns, Functions, and Algebra
Science	Scientific Investigation (and Resources)
	Force, Motion, Energy and Matter
	Life Processes and Living Systems, Life Science, Earth Science
	Interrelationships in Earth/Space Systems and Earth Patterns, Cycles, and Changes
History/Social	History
Science	Geography
	• Civics
	• Economics

Students in the VAAP are required to select **one** ASOL (Appendix B) from **each reporting category** in the content area being assessed.

5.3 Create Instructional Plan

The following steps provide a general framework for developing the student's individual instructional plan.

- Identify the grade level of the student's enrollment.
- Examine the content area and reporting categories identified for the grade level being considered.
- Choose an ASOL at the student's grade level from each reporting category listed for the specific content area assessed. Keep in mind that for ASOL statements that have multiple bullets, only *one* bullet must be selected and defended (Section 5.1).
- If no ASOL at the student's grade level is appropriate, examine an ASOL from a higher or lower grade level to select one ASOL statement for each reporting category. The ASOL content area summary matrices and the ASOLs (full text) in Appendix B may be used in this process.
- Provide instruction throughout the year on the selected ASOLs and gather evidence of the student's knowledge and skills. A variety of instructional resources including instructional strategies and lesson plans are available at: www.ttaconline.org

Evidence of the student's performance on the ASOLs may include, but is not limited to:

- Work sample
- Video
- Audio
- Anecdotal Record
- Interview
- Data Chart/Graph
- Captioned Photograph

Additional information on VAAP evidence is outlined in Section 6 of this manual.

6. COLLECTION OF EVIDENCE

The VAAP provides the student the opportunity to demonstrate what he or she knows through a non-traditional mode of testing. By developing products and work samples that demonstrate an understanding or skill, the student proves that he or she knows the content.

6.1 Components of a Collection of Evidence

A collection of evidence (COE) that is submitted for scoring to the local school division must contain the following components:

- A VAAP Affidavit of Student Performance that is signed and demonstrates the student's sole ownership/authorship;
- Evidence that demonstrates individual achievement on ASOLs addressed in the blueprint for a specific grade level and content area;
- VAAP Content Area Cover Sheet for COE of each content area assessed (Appendix D); and
- Any locally required documentation (e.g., participation guideline forms, tracking forms).

6.2 Select Evidence of Student Achievement

The selection of evidence used to demonstrate student performance on the ASOLs is the responsibility of the student and submitting teacher. Evidence submitted must demonstrate the *student's level of individual achievement* on the selected ASOLs. Evidence should be viewed from a qualitative, not quantitative, perspective. Evidence submitted should clearly demonstrate the level of competency the student has in regard to each ASOL being defended.

The student and teacher may submit as many different types of evidence as necessary to demonstrate the student's individual achievement. All evidence submitted must have been completed by the student in the presence of a teacher and/or paraprofessional.

6.3 Include Varied Types of Evidence

Keep in mind that **all** evidence should be related to the student's performance of the selected ASOL skill and/or knowledge being defended.

Anecdotal records, observations, interviews, and other evidence that is an "observation" of student skills and/or knowledge should be written in such a manner that the scorer can determine the level of individual achievement of the ASOL demonstrated. Evidence such as work samples, tests, and quizzes must be graded so that correct and incorrect answers are clearly identified.

6.3.1 Work Sample

A work sample contained in a VAAP collection must demonstrate that the student was able to complete the work independently under direct supervision of a teacher or other school personnel. The work sample should demonstrate knowledge and/or skills addressed in the ASOL. Work samples may include worksheets, tests, quizzes, writing samples, and any other student-generated work.

Tips for Teachers

- All work must be graded correctly so that the student's proficiency on the content is clear. Correct and incorrect answers should be clearly indicated.
- Care must be given to ensure that the work sample(s) address all the concepts stated in the ASOL, including the stem and one bullet, as appropriate.

6.3.2 **Audio**

A student may submit an audio for the VAAP. For example, a student may submit an audio of himself or herself answering questions about a specific topic. The student may read a selection on audio, or he or she may describe a procedure to demonstrate knowledge of the procedure. Once again, the audio must contain only student-generated information and/or work. It is appropriate for a teacher or other school personnel to read questions on the audio, but responses should be the student's alone without the use of note cards or cue sheets. The audio must also include a statement of accuracy describing the student's level of achievement on the ASOL being defended.

Tips for Teachers

- A signed release form that grants permission to use a recording of the student's voice may be required by the school division before including an audio in the collection of evidence.
- Check with your School Coordinator to determine the required format(s) for audio.
- Include a script of the audio. This strategy is an excellent safeguard if the audio equipment breaks or malfunctions.
- State the ASOL number and description on the audio prior to the portion of the recording with the student evidence.
- If a tape recorder is used to produce an audio for multiple ASOLs, include a list using the counter.

For Example:

Math M-NS8 - 001-005 Math M-NS16 - 020-050

 Audio recordings containing more than one voice should indicate the portions belonging to the student.

6.3.3 Video

A student may submit a video with various content standards for the VAAP. For example, a student may submit a video of himself or herself working on a skill or concept. The video may contain an interview of the student on a specific topic or show the student performing a specific skill. The video must contain only student generated information and/or work. It is appropriate for a teacher or other school personnel to be on the video to ask questions or provide appropriate supports. The video must include a statement of accuracy describing the student's level of achievement on the ASOL being defended.

Tips for Teachers

- A signed release form that grants permission to use students' photographs and record their images and voices is required before including a video in the collection of evidence.
- Check with your School Coordinator to determine the required format(s) for video.
- If a video is used for multiple standards, include a list using the counter.

For Example: Math MNS 10 – 001-030 Math MNS 11 – 045-100

 Include a script of the video. This is an excellent safeguard that ensures evidence is not lost if the video equipment breaks or malfunctions.

6.3.4 Anecdotal Record

The student or teacher may submit an anecdotal record of student performance as a type of evidence for the VAAP. An anecdotal record is a log of student performance. In this instance, the teacher may record a skill or knowledge demonstrated by the student alone in an anecdotal record of student performance, or the student may write his or her own anecdotal record indicating how and what he or she was able to demonstrate for a specific knowledge or skill. Anecdotal records should include the date of performance, a description of the observed skill or procedure, and a statement of accuracy describing the student's level of achievement on the ASOL being defended.

Tips for Teachers

- Observation should be carefully planned to ensure that the student has the best opportunity to demonstrate his or her skill and knowledge.
- The observer should describe the learning environment and the specific activities and responses of the student.
- An example of one entry on an anecdotal record:
 On April 4, 2009, Karen sorted a box containing 20 bottles by size, then by shape, and then by color with 100% accuracy. Karen was able to complete this activity independently.

6.3.5 Interview

The student or teacher may submit an interview as a type of evidence for the VAAP. Interviews might be conducted by the teacher with the student to demonstrate understanding of a concept or skill. The teacher would ask the student questions related to the topic being discussed and the student would provide a response. Interview questions should be concise and precise in design to afford the student the best opportunity to demonstrate what he or she knows about the given topic being discussed. The interview should also include a statement of accuracy describing the student's level of achievement on the ASOL being defended.

Tips for Teachers

- Interview questions should be prepared in advance to ensure that the ASOL content is completely addressed.
- Interview questions should be short and clear to give the student the best opportunity to respond.
- Follow-up questions are permitted, but must also be documented.
- Interviews may be recorded by video or audio. Include a script of the interview. This is an excellent safeguard that ensures evidence is not lost if equipment breaks or malfunctions.

6.3.6 Data Chart/Graph

Charts and/or graphs may be submitted as evidence of student achievement. These should reflect student skills and/or knowledge and may be generated by the teacher and/or student.

Tips for Teachers

 Charts and graphs must contain specific information regarding the student's specific skill, the date of performance, the student level of achievement, and the level of prompting by the teacher, if provided.

6.3.7 Captioned Photograph

Photographs with a captioned statement may be used to show student performance of ASOLs knowledge and skills.

Tips for Teachers

- A signed release form that grants permission to photograph a student is required before including a photograph in the collection of evidence.
- If the photograph includes more than one person, the student who is participating in the VAAP must be clearly identified.
- Most importantly, the photograph must also be accompanied by a detailed statement that describes the activity occurring and the student's level of achievement.

6.4 Complete Documentation Forms for the COE

6.4.1 Prepare the VAAP Content Area Cover Sheet(s)

All evidence for an assessed content area should be organized using the 2008-2009 VAAP Content Area Cover Sheet (Appendix D). In addition to providing student information, the cover sheet should identify the content area, reporting category, and the ASOL and bullet, if applicable, being defended, and any accommodations used.

6.4.2 Sign Affidavit of Student Performance

All the evidence submitted for the VAAP must be solely that of the student and must be completed under the supervision of a teacher or other school personnel. Persons who have supervised the student while completing evidence are required to sign an affidavit. The affidavit ensures that all evidence included adheres to ethical and professional standards. A signed affidavit must be included in each COE. If a COE is submitted without an affidavit, it cannot be scored. A copy of the 2008-2009 Affidavit of Student Performance is included in Appendix E.

6.5 Organize the COE

The COE should be organized in the following order:

- Affidavit of Student Performance
- **2** Required local forms
- 3 VAAP Content Area Cover Sheet
- **4** Evidence of student performance
- **S** As appropriate, include additional cover sheet(s) for each content area(s) defended, followed by evidence of student performance.

6.6 Inspect the COE Before Submitting to the School Coordinator

Before submitting the COE to the School Coordinator, carefully inspect it to ensure that

- all work is solely created by the student,
- all required forms have been accurately completed,
- all evidence defends the ASOLs,
- each piece of evidence has a completed SEI Tag,
- work does not include the use of hand-over-hand (full physical assistance), and
- all work is graded or includes a statement of accuracy. The grades may be a letter grade, numerical grade, or evaluative comments from the teacher.

For the purpose of review, a *Teacher Checklist for Collection of Evidence* and an *Administrator Checklist for Collection of Evidence* are provided in Appendix F. The SEI Tag must identify the content area being assessed and the ASOL and bullet, if appropriate, that are being defended. The SEI Tag template is available on the Virginia Department of Education's Web site at:

www.doe.virginia.gov/VDOE/Assessment/VAAP/SEITemplate.doc

VAAP STUDENT EVIDENCE IDENTIFICATION (SEI) TAG

Content Area: Mathematics

ASOL: M-NS1

Bullet:

7. VAAP SCORING PROCESS

After the student has completed all required content area entries, the student and teacher must submit the student's COE for scoring to the School Coordinator. The School Coordinator will ensure that each COE is complete before submitting to the DDOT. The DDOT will ensure that scorers are available and trained to score submitted collections of student evidence.

Scorers will rate student evidence using established rubrics (Section 7.1) and then enter scores using the online scoring system. The VAAP online entries are submitted to Pearson via secure Internet connections.

7.1 Scoring Rubrics

The SOL articulate the core academic areas of reading, mathematics, science, and history/social science. These standards are organized by grade level to reflect student learning outcomes. Virginia's ASOLs articulate the same core academic areas of reading, mathematics, science, and history/social science for students with significant cognitive disabilities. Aligned standards are organized across grade levels to reflect appropriate student learning outcomes. When a student submits evidence of skills and/or knowledge listed in the ASOLs, the following rubric is used to rate the level of student individual achievement.

Table 3. VAAP Scoring Rubric

Score	Descriptors
0	There is <i>no evidence</i> of the specific Aligned Standard(s) of Learning being addressed.
1	There is <i>little evidence</i> that the student has demonstrated the skills and knowledge stated in the Aligned Standard(s) of Learning being addressed.
2	There is <i>some evidence</i> that the student has demonstrated the skills and knowledge stated in the Aligned Standard(s) of Learning being addressed.
3	There is <i>adequate evidence</i> that the student has demonstrated the skills and knowledge stated in the Aligned Standard(s) of Learning being addressed.
4	There is <i>ample evidence</i> that the student has demonstrated the skills and knowledge stated in the Aligned Standard(s) of Learning being addressed.

Table 4. VAAP Scoring Rubric Addendum

The rubric is augmented by an addendum to provide further explanation and understanding of the scoring terms.

Descriptor	Detailed Explanation
No Evidence	A score point of "0" may be assigned if the evidence submitted does not show any level of individual achievement for the ASOL being defended.
Little Evidence	The Collection of Evidence provides a minimally sufficient <i>demonstration</i> of the student's knowledge and understanding of the ASOL. The evidence is incomplete and mostly inaccurate, exhibiting only a very basic level of understanding. Overall, the quality of the evidence presented is weak and does not satisfy most of the requirements of the ASOL.
Some Evidence	The Collection of Evidence provides only a partially sufficient demonstration of the student's knowledge and understanding of the ASOL. The evidence may be incomplete or may exhibit major lapses in accuracy. Overall, the quality of the evidence presented does not satisfy many of the requirements of the ASOL.
Adequate Evidence	The Collection of Evidence provides a reasonably sufficient demonstration of the student's knowledge and understanding of the ASOL. Most of the student's work is accurate and correct, but the performance is not consistent and may be incomplete. Overall, the quality of the evidence presented is appropriate and satisfies many of the requirements of the ASOL.
Ample Evidence	The Collection of Evidence provides a fully sufficient demonstration of the student's knowledge and understanding of the ASOL. Minor lapses in accuracy and completeness may occur, but overall the quality of the evidence presented consistently and appropriately satisfies most of the requirements of the ASOL.

7. 2 Scoring Considerations

The ASOLs (Appendix B) in each content area provide students participating in the VAAP with skills and/or knowledge statements. These statements are the expected performance measures used in the assessment component of the program. Instruction in the content area skills contained in these frameworks will be supported by the Virginia Department of Education. When selecting a content area skill to defend in the assessment component of the VAAP, **students must** *defend only one bullet* **contained within an ASOL that has multiple bullets**, as illustrated in the following example.

Example: Selection of an ASOL with Multiple Bullets

The student and teacher select reading ASOL:

- E-RC1 -The student will demonstrate comprehension of fiction and nonfiction.
 - a) Use pictures to make predictions about content.
 - b) Retell familiar stories, using beginning, middle, and end.
 - c) Discuss characters, setting, and events.
 - d) Use story language in discussions and retellings.
 - e) Identify what an author does and what an illustrator does.
 - f) Identify the topics of nonfiction selections.

In reviewing the content skills and knowledge expressed within the standard, the student and teacher choose to defend the specific bullet:

a) Use pictures to make predictions about content.

Therefore, the student and teacher will be required to submit evidence of individual achievement to defend the ASOL stem. E-RC1. and bullet "a" as stated above.

The evidence must defend the stem, which requires the demonstration of comprehension of fiction and nonfiction, **and** the bullet, which requires the use of pictures for both types of passages to make predictions about content.

If the selected ASOL does not contain multiple statements/bullets of skills and/or knowledge, the student is expected to defend the ASOL statement in its entirety.

7.3 General VAAP Scoring Rules

Rule 1 Evidence must show individual student achievement.

- If the student work does not show any level of individual achievement with the ASOL being defended, the scorer may assign a score point of "0."
- If the student work shows the use of hand-over-hand instruction, the evidence cannot be considered in scoring. Hand-over-hand is full physical assistance needed to complete an ASOL. For example, a full physical assist might entail putting your hand on the student's hand and moving the student's hand through the action of writing his or her name.

NOTE: Hand-over-hand instruction, although a valid introductory teaching method, does not provide evidence of the student's performance and cannot be considered during scoring.

Rule 2 Evidence must be student-generated.

• If the student work is based on homework or an open-book test, the work cannot be considered in scoring.

- If the student work is copied from sources such as the blackboard, texts, or a computer, the
 work cannot be considered in scoring.
- If the student work includes examples or directions that clearly provide answers for students, the work cannot be considered in scoring.
- If the student work is a part of a group project and the work of the student participating in the VAAP is not clearly identified, the work cannot be considered in scoring.

Rule 3 Evidence must include a correctly labeled Student Evidence Identification (SEI) Tag.

- If there is no SEI Tag, the evidence cannot be considered in scoring.
- If the SEI Tag is clearly mislabeled, the SEI Tag should be corrected and initialed by the Scoring Event Coordinator or designee <u>before</u> it is considered in scoring.

Rule 4 Evidence must include a completed *VAAP Content Area Cover Sheet* for each content area.

- The VAAP Content Area Cover Sheet is not considered evidence and will not be scored.
- **Rule 5** Evidence must include a signed affidavit or it will not be scored.
- **Rule 6** Evidence must clearly address accommodations, photograph captions, and grading.

Accommodations

• If an accommodation has been used in the creation of the evidence, then the accommodation must be documented in the evidence or on the VAAP Content Area Cover Sheet.

Supports

• If supports have been used in the creation of the evidence, then the supports must be documented in the evidence or on the VAAP Content Area Cover Sheet.

Captions

• If the evidence includes photographs, captions (descriptive statements of student achievement) must be included; otherwise the evidence cannot be considered in scoring.

Grading

• If the evidence includes work samples such as worksheets, tests, and quizzes, the work samples should be graded by the teacher and correct and/or incorrect answers should be clearly identified. The grades may be a letter grade, numerical grade, or evaluative comments as determined appropriate by the teacher. Evidence such as anecdotal records, observations, interviews, audios, and videos must include a statement of accuracy describing the student's level of individual achievement on the ASOL being defended. If the information included in the work sample can be verified, the scorers should verify the accuracy of the student's work.

NOTE: The ASOL Curriculum Framework may be used as a reference tool to help scoring teams understand the ASOL addressed. The ASOL Curriculum Framework is available at

http://www.ttaconline.org

7.4 Using the Scoring Rubric for Student Performance

The following three scenarios illustrate how the **same** ASOL is defended and the student's performance is scored using the *VAAP Scoring Rubric*.

7.4.1 Example A - Evidence received a score point of "1"

A student is defending the reading ASOL:

E-RW4 The student will apply knowledge of how print is organized and read.

a) Read from left to right and from top to bottom.

Student and Teacher A submit four worksheets that demonstrate the student's ability to listen to stories read aloud, a video of a reading activity where the student is able to identify the main character using a communication board, and a series of photographs showing the student looking at a book as the teacher turns the pages.

Using the scoring rubric for student performance, the scorer rates the evidence submitted as a score point of "1"- there is *little evidence* that the student has demonstrated the skills and knowledge stated in the Aligned Standard(s) of Learning being addressed. (See Table 3, *VAAP Scoring Rubric*)

Based on all the evidence submitted in the Example A above, it is unclear to the scorer as to whether the student is able to "apply knowledge of how print is organized and read by demonstrating the ability to read from left to right and from top to bottom." Although all of the evidence submitted relates to the student's instruction in reading content, the evidence does NOT demonstrate the level of the student's performance or express the knowledge and/or skill stated in the ASOL. Further, multiple examples that do not demonstrate the knowledge and/or skill stated in the ASOL may still receive a low score.

7.4.2 Example B - Evidence received a score point of "3"

A student is defending the reading ASOL:

E-RW4 The student will apply knowledge of how print is organized and read.

a) Read from left to right and from top to bottom.

Student and Teacher ${\bf B}$ submit a video of the student reading a book. When the student reaches the end of each sentence, the teacher is shown pointing to and prompting the student to read the next line. When the student completes a page, the teacher turns the page and prompts the student to continue reading the book, and the teacher points and says, "Begin with this line." Along with the videotape are copies of the pages from the book that the student read on the videotape.

Using the scoring rubric for student performance, the scorer rates the evidence submitted as a score point of "3" - there is *adequate evidence* that the student has demonstrated the skills and knowledge stated in the Aligned Standard(s) of Learning being addressed. (See *VAAP Scoring Rubric*.)

Although the student is clearly reading each sentence when directed, he still needs prompting to complete the full requirements of the ASOL as listed. Had the student been unable to follow the prompts and directions of the teacher to continue to read from top to bottom, this evidence might have been rated a "2" for student performance.

7.4.3 Example C - Evidence received a score point of "4"

A student is defending the reading ASOL:

E-RW4 The student will apply knowledge of how print is organized and read.

a) Read from left to right and from top to bottom.

Student and Teacher C submit a videotape of the student reading a book from left to right and from top to bottom. When the student completes a page, the teacher turns the page and the student continues to read the book. Along with the videotape are copies of the pages from the book that the student read on the videotape.

Using the scoring rubric for student performance, the scorer rates the evidence submitted as a score point of "4" - there is *ample evidence* that the student has demonstrated the skills and knowledge stated in the Aligned Standard(s) of Learning being addressed. (See *VAAP Scoring Rubric*)

Although there are only two samples of evidence, both demonstrate that the student is able to perform the entire ASOL being measured.

7.5 Scorers' Responsibilities

The local school division has direct responsibility for establishing and maintaining scorers. Each school division should identify a person(s) responsible for supervising, training, monitoring, and maintaining scorers. The Virginia Department of Education will offer in-depth regional training yearly to meet the needs of scorers and to update information regarding the VAAP.

Individual scorers or scoring teams may be used. Regardless of whether individual scorers or teams are used, school division personnel knowledgeable in special education must be involved. Additional scoring team members may be used, and more than one scoring team may be assembled and maintained within a school division.

The DDOT is responsible for ensuring that proper protocol is followed for assembling, rating, scoring, and reporting VAAP entries using the *VAAP Online Scoring System*. Scoring team members are responsible for assigning ratings for submitted evidence following established rubric descriptors (Section 7.1). The scoring team is responsible for ensuring "fair and accurate" ratings of student performance, maintaining submitted collections of student work during the scoring and audit window, and reporting results for scored VAAP entries to the Virginia Department of Education. Scoring teams may not discuss submitted evidence, ratings, proficiency levels, or scoring issues outside of the scoring team meeting.

Scoring team members must not use membership on the VAAP scoring team to influence the selection of student materials for the collections of evidence. If a scoring team member has provided training or technical guidance to the student and/or teacher in submitting evidence, he/she may not score that particular COE.

7.6 VAAP Scores

After VAAP scores are entered, the online system will calculate the student's total score for each content area submitted and use predetermined cut points established by the Virginia Board of Education to assign proficiency levels.

8. AUDITS AND SCORE CORRECTION

8.1 VAAP Audit Process

Audits will be conducted in July of each assessment administration year. Pearson will randomly select 10% to 15% of a division's student submitted VAAP collections of evidence to be audited. These selected COEs will be subject to audits of student evidence and ratings. The purpose of the audit is to ensure that the school division's scoring teams are appropriately applying the scoring rubric to selected student evidence.

Audited COEs will be selected during scoring. The DDOT will be notified in writing of the selected collections and the audit date. Audited entries will be examined to confirm ratings of evidence submitted. A complete official audit report will be provided to the DDOT after completion of the audit process.

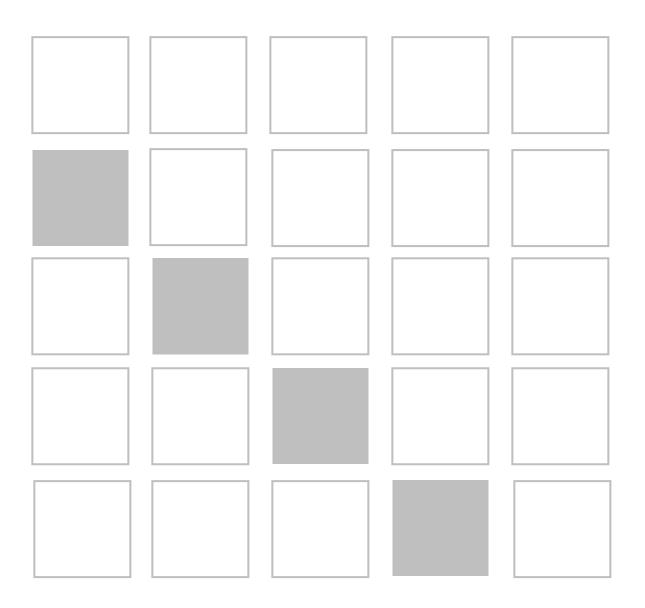
8.2 VAAP Score Correction Process

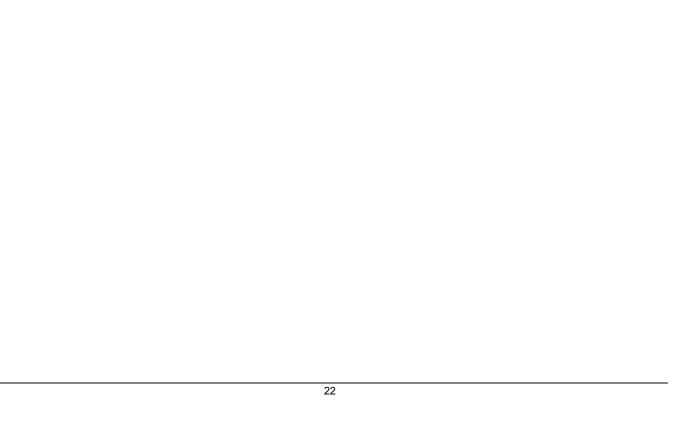
The VAAP collections of evidence are not eligible for rescore, but school divisions can request that scores entered incorrectly in PEMSolutions (scores that are different from those on the *VAAP Scoring Worksheet*) be corrected. This process provides an opportunity for school divisions to correct an error in a scoring entry **after** the VAAP submission due date. However, **before** the VAAP scoring entry due date, the scores may be corrected in the online scoring system.

NOTE: The School Coordinator and DDOT will provide you specific procedures for requesting a score correction.

APPENDIX

Frequently Asked Questions by Teachers 2008 - 2009 Participation Criteria Form





APPENDIX A

Virginia Alternate Assessment Program

Frequently Asked Questions by Teachers

Q1. What kind of student would take the VAAP?

The VAAP is an appropriate assessment for students with disabilities who have a current IEP. There should be documentation that the student has significant cognitive disabilities. Also, the student's present level of performance indicates the need for extensive, direct instruction and/or intervention in a curriculum framework based on the Aligned Standards of Learning. This student requires intensive, frequent, and individualized instruction in a variety of settings to show interaction and achievement. The high school student appropriate for the VAAP is working toward educational goals other than those prescribed for a Modified Standard Diploma, Standard Diploma, or Advanced Studies Diploma.

Q2. In which content areas can the VAAP be used?

The VAAP is available for the content areas of reading, mathematics, science, and history/social science. The Virginia Department of Education strongly recommends submission of evidence in all content areas being assessed by SOL tests for general education students at the same grade level.

Q3. In which grade levels can the VAAP be used?

The VAAP is available for students with disabilities who have an IEP in grades 3-8 and grade 11. If it is the practice of the school division for students with significant cognitive impairments to be enrolled in grade 11 for more than one year, the student participating in the VAAP should take the VAAP the first year of enrollment in grade 11.

Q3. Can students use accommodations on VAAP evidence?

Yes. A student may submit evidence using accommodations as specified within the student's current IEP. Hand-over-hand assistance (or full physical assistance), may not be used as evidence of student achievement.

Q4. Collecting samples of work for students submitting a VAAP takes a great deal of effort. Why do teachers have to prepare collections of evidence of student's work for this assessment?

Collecting work samples and student products is a routine part of the ongoing instructional process. Although additional work is required to organize the collection of evidence and to prepare it for submission, the VAAP provides students with disabilities a method of demonstrating their knowledge of ASOL content through non-traditional means. Given the broad range of methods available to students participating in the VAAP, a collection of evidence is the most flexible and efficient method for examining student performance.

Q5. How are functional skills and life skills assessed?

Individual achievement of academic skills is the single focus of the VAAP. Although functional skills such as self care, leisure activities, and domestic skills are important components of educational programs designed for students with significant cognitive disabilities, these skills are not evaluated in the VAAP.

Q6. What supporting documentation must be submitted with the Collection of Evidence?

A completed 2008-2009 Content Area Cover Sheet for each content area being submitted and a completed and signed Affidavit of Student Performance must be included in each Collection of Evidence. The redesigned affidavit with multiple signature lines may be used for the entire collection. Also, each piece of evidence should have a completed SEI tag.

APPENDIX A, continued

Virginia Alternate Assessment Program

Frequently Asked Questions by Teachers

Q7. Can the VAAP Collection of Evidence be reviewed by parents and other school personnel?

Yes. The Collection of Evidence is available for review and feedback by the student, parents, and other school personnel as needed.

Q8. How is the VAAP scored?

The VAAP is submitted to the school division and scored locally. Scorers will receive training on the process of applying the scoring rubric to submitted evidence, use of the online scoring system, and other information pertinent to scoring the VAAP. The VAAP rubric, rubric addendum, and scoring rules are available in Section 7 of The Virginia Alternate Assessment Program Implementation Manual.

Q9. Why is my local school division scoring the VAAP and what is the online system?

Scoring VAAP entries is the joint responsibility of the local school division, the testing contractor, and the Virginia Department of Education. Local scoring teams are responsible for examining evidence and rating performance. The testing contractor and the Virginia Department of Education, via an online scoring system, will calculate proficiency and provide online reports. The scoring process will involve scorers examining submitted evidence for specific content area standards and applying a scoring rubric, rubric addendum, and scoring rules in order to assign a value to the evidence presented in a holistic manner. Once all evidence submitted for a specific VAAP entry has been scored, scorers will enter their ratings of student performance in the online scoring system.

Q10. What is a VAAP audit?

After the submission window for VAAP entries, the testing contractor will randomly select submitted entries for audit. The purpose of the VAAP audit is to ensure that scoring teams are correctly applying the scoring rubric and related scoring tools to submitted evidence.

Q11. How will I know if my school or student has been selected for an audit of his or her VAAP?

The Division Director of Testing will be notified in writing that a student's COE within the division has been selected for VAAP audit(s).

APPENDIX A, continued

Virginia Alternate Assessment Program

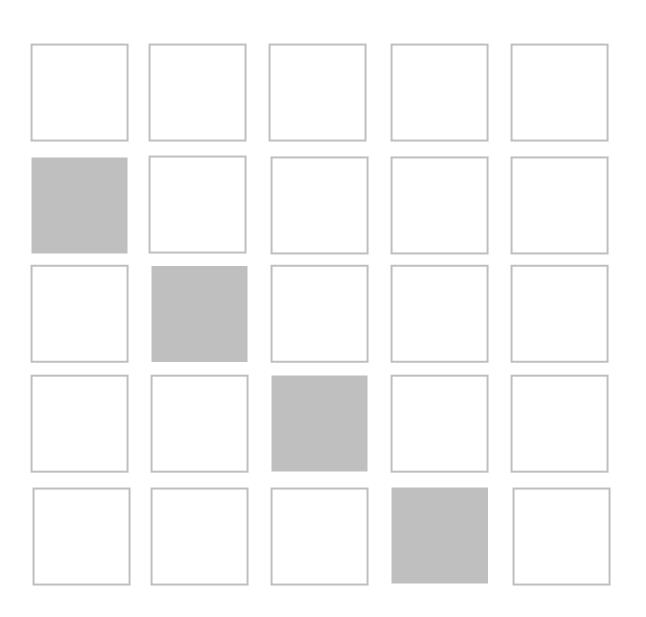
2008- 2009 Participation Criteria Form

DIRECTIONS: To qualify for the Virginia Alternate Assessment Program (VAAP), a student's IEP team must determine that a student is eligible based on answering the questions below. A response of "No" for any question indicates that the student is **NOT** eligible for the VAAP

AP.		
lent In	formation	
lent Na	me:	Date of Birth:
e Testin	ng Identifier (STI): Current Grade of Enrollment:
oma Pr	rogram(s):	
ool Div	ision Inform:	ation
ool Div	ision Name:_	Division Number:
ool Nar	ne:	School Number:
ool Cor	ntent/Teacher:	Date:
		Virginia Alternate Assessment Program Participation Criteria
1)	Does the stu	udent have a current IEP (or one that is being developed)?
	☐ Yes	\square No
2)	Does the stu	udent demonstrate significant cognitive disabilities?
	☐ Yes	\square No
3)	interventio performan	udent's present level of performance indicate the need for extensive, direct instruction and/or on in a curriculum framework based on Aligned Standards of Learning? The present level of ce, or student evaluation, may also include personal management, recreation and leisure, school and y, vocational, communication, social competence and/or motor skills.
	☐ Yes	\square No
4)		udent require intensive, frequent, and individualized instruction in a variety of settings to show and achievement?
	☐ Yes	\square No
5)		ent working toward educational goals other than those prescribed for a Modified Standard, Standard ed Studies Diploma?
	☐ Yes	\square No
	NOTE: Stu	idents considered for the VAAP must be enrolled in grades 3-8 or grade 11.
ned:		Date
Spec	ial Education	Teacher
Parer	nt	Date
	ling Adminis	Date
		trator or Designee Date
Othe	r	
Othe	r	Date

APPENDIX B

ALIGNED STANDARDS OF LEARNING





APPENDIX B VIRGINIA ALTERNATE ASSESSMENT PROGRAM

ALIGNED STANDARDS OF LEARNING

Teachers may use the *Reading ASOLs Summary Matrix* during the initial development of the student's instructional and assessment plan to track the learning progression of the student throughout the year and for planning units and lessons.

Reading ASOLs Summary Matrix

Level of Complexity Least Complex→Most Comp							st Complex
Reporting Category	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 11
Use word analysis strategies and information resources (E-RW)	E-RW 1 E-RW 2 E-RW 3	E-RW 4 E-RW 5 E-RW 6 E-RW 7 E-RW 8	E-RW 9 E-RW 10 E-RW 11 E-RW 12	E-RW 13 E-RW 14 E-RW 15	E-RW 16 E-RW 17	E-RW 18 E-RW 19	E-RW 20 E-RW 21
Demonstrate comprehension of printed materials (E-RC)	E-RC 1	E-RC 2	E-RC 3 E-RC 4	E-RC 5 E-RC 6	E-RC 7 E-RC 8	E-RC 9 E-RC 10	E-RC 11

APPENDIX B, continued

READING ALIGNED STANDARDS OF LEARNING

Reporting Category: Use word analysis strategies and information resources

E-RW 1 The student will understand how print is organized and read.

(SOL K.5) a) Hold print materials in the correct position.

- b) Identify the front cover, back cover, and title page of a book.
- c) Follow words from left to right and from top to bottom on a printed page.
- d) Match voice with print: syllables, words, and phrases.
- E-RW 2 The student will demonstrate an understanding that print makes sense.
- (SOL K 6) a) Explain that printed materials provide information.
 - b) Identify common signs and logos.
 - c) Read ten high-frequency words.
 - d) Read and explain own writing and drawings.
- E-RW 3 The student will develop an understanding of basic phonetic principles.
- (SOL K.7) a) Identify and name the uppercase and lowercase letters of the alphabet.
 - b) Match consonant and short vowel sounds to appropriate letters.
 - c) Identify beginning consonant sounds in single-syllable words.
- E-RW 4 The student will apply knowledge of how print is organized and read.
- (SOL 1.5) a) Read from left to right and from top to bottom.
 - b) Match spoken words with print.
 - c) Identify letters, words, and sentences.
- E-RW 5 The student will apply phonetic principles to read and spell.
- (SOL 1.6) a) Use beginning and ending consonants to decode and spell single-syllable words.
 - b) Use two-letter consonant blends to decode and spell single-syllable words.
 - c) Use beginning consonant digraphs to decode and spell single-syllable words.
 - d) Use short vowel sounds to decode and spell single-syllable words.
 - e) Blend beginning, middle, and ending sounds to recognize and read words.
 - f) Use word patterns to decode unfamiliar words.
 - g) Use compound words.
 - h) Read and spell common, high-frequency sight words, including the, said, and come.
- E-RW 6 The student will use meaning clues and language structure to expand vocabulary when reading.
- (SOL 1.7) a) Use titles and pictures.
 - b) Use knowledge of the story and topic to read words.
 - c) Use knowledge of sentence structure.
 - d) Reread and self-correct.

E-RW 7 The student will read familiar stories, poems, and passages with fluency and expression.

(SOL 1.8)

E-RW 8 The student will use simple reference materials.

(SOL 1.10) a) Use knowledge of alphabetical order by first letter.

b) Use a picture dictionary to find meanings of unfamiliar words.

E-RW 9 The student will use phonetic strategies when reading and spelling.

(SOL 2.4) a) Use knowledge of consonants, consonant blends, and consonant digraphs to decode and spell words.

- b) Use knowledge of short, long, and r-controlled vowel patterns to decode and spell words.
- c) Decode regular multisyllabic words.

E-RW 10 The student will use meaning clues and language structure when reading.

(SOL 2.5) a) Use information in the story to read words.

- b) Use knowledge of sentence structure.
- c) Use knowledge of story structure and sequence.

E-RW 11 The student will use language structure to expand vocabulary when reading.

(SOL 2.6) a) Use knowledge of prefixes and suffixes.

- b) Use knowledge of contractions and singular possessives.
- c) Use knowledge of simple abbreviations.
- d) Use knowledge of antonyms and synonyms.

E-RW 12 The student will demonstrate comprehension of information in reference materials.

- (SOL 2.9) a) Use a table of contents.
 - b) Use pictures and charts.
 - c) Use dictionaries and indices.

E-RW 13 The student will apply word-analysis skills when reading.

(SOL 3.3) a) Use knowledge of all vowel patterns.

- b) Use knowledge of homophones.
- c) Decode regular multisyllabic words.

E-RW 14 The student will use strategies to read a variety of fiction and nonfiction materials.

(SOL 3.4) a) Preview and use text formats.

- b) Set a purpose for reading.
- c) Apply meaning clues, language structure, and phonetic strategies.
- d) Use context to clarify meaning of unfamiliar words.
- e) Read fiction and nonfiction fluently and accurately.
- f) Reread and self-correct when necessary.

- E-RW 15 The student will demonstrate comprehension of information from a variety of print resources.
- (SOL 3.7) a) Use dictionary, glossary, thesaurus, encyclopedia, and other reference books, including online reference materials.
 - b) Use available technology.
- E-RW 16 The student will read fiction and nonfiction with fluency and accuracy.
- (SOL 4.3) a) Use context to clarify meanings of unfamiliar words.
 - b) Explain words with multiple meanings.
 - c) Use knowledge of word origins; synonyms, antonyms, and homonyms; and multiple meanings of words.
 - d) Use word-reference materials, including the glossary, dictionary, and thesaurus.
- E-RW 17 The student will demonstrate comprehension of information resources to research a topic.
- (SOL 4.6) a) Construct questions about a topic.
 - b) Collect information, using the resources of the media center, including online, print, and media resources.
 - c) Evaluate and synthesize information.
- E-RW 18 The student will read fiction and nonfiction with fluency and accuracy.
- (SOL 5.4) a) Use context to clarify meaning of unfamiliar words.
 - b) Use knowledge of root words, prefixes, and suffixes.
 - c) Use dictionary, glossary, thesaurus, and other word-reference materials.
- E-RW 19 The student will demonstrate comprehension of information from a variety of print resources.
- (SOL 5.7) a) Develop notes that include important concepts, summaries, and identification of information sources.
 - b) Organize information on charts, maps, and graphs.
- E-RW 20 The student will read and learn the meanings of unfamiliar words and phrases.
- (SOL 6.3) a) Identify word origins, derivations, and inflections.
 - b) Identify analogies and figurative language.
 - c) Use context and sentence structure to determine meanings and differentiate among multiple meanings of words.
 - d) Use word-reference materials.

- E-RW 21 The student will read and demonstrate comprehension of a variety of informational selections.
- (SOL 6.5) a) Identify questions to be answered.
 - b) Make, confirm, or revise predictions.
 - c) Use context to determine meanings of unfamiliar words and technical vocabulary.
 - d) Draw conclusions and make inferences based on explicit and implied information.
 - e) Organize the main idea and details to form a summary.
 - f) Compare and contrast information about one topic contained in different selections.
 - g) Select informational sources appropriate for a given purpose.

Reporting Category: Demonstrate comprehension of printed materials

- E-RC 1 The student will demonstrate comprehension of fiction and nonfiction.
- (SOL K.8) a) Use pictures to make predictions about content.
 - b) Retell familiar stories, using beginning, middle, and end.
 - c) Discuss characters, setting, and events.
 - d) Use story language in discussions and retellings.
 - e) Identify what an author does and what an illustrator does.
 - f) Identify the topics of nonfiction selections.
- E-RC 2 The student will read and demonstrate comprehension of a variety of fiction and nonfiction.
- (SOL 1.9) a) Preview the selection.
 - b) Set a purpose for reading.
 - c) Relate previous experiences to what is read.
 - d) Make predictions about content.
 - e) Ask and answer who, what, when, where, why, and how questions about what is read.
 - f) Identify characters, setting, and important events.
 - g) Retell stories and events, using beginning, middle, and end.
 - h) Identify the topic or main idea.
- E-RC 3 The student will read fiction and nonfiction, using a variety of strategies independently.
- (SOL 2.7) a) Preview the selection by using pictures, diagrams, titles, and headings.
 - b) Set purpose for reading.
 - c) Read stories, poems, and passages with fluency and expression.
 - d) Reread and self-correct when necessary.
- E-RC 4 The student will read and demonstrate comprehension of fiction and nonfiction.
- (SOL 2.8) a) Make predictions about content.
 - b) Read to confirm predictions.
 - c) Relate previous experiences to the topic.
 - d) Ask and answer questions about what is read.
 - e) Locate information to answer questions.
 - f) Describe characters, setting, and important events in fiction and poetry.
 - g) Identify the problem, solution, and main idea.

- E-RC 5 The student will read and demonstrate comprehension of fiction.
- (SOL 3.5) a) Set a purpose for reading.
 - b) Make connections between previous experiences and reading selections.
 - c) Make, confirm, or revise predictions.
 - d) Compare and contrast settings, characters, and events.
 - e) Identify the author's purpose.
 - f) Ask and answer questions.
 - g) Draw conclusions about character and plot.
 - h) Organize information and events logically.
 - i) Summarize major points found in fiction materials.
 - j) Understand basic plots of fairy tales, myths, folktales, legends, and fables.
- E-RC 6 The student will continue to read and demonstrate comprehension of nonfiction.
- (SOL 3.6) a) Identify the author's purpose.
 - b) Make connections between previous experiences and reading selections.
 - c) Ask and answer questions about what is read.
 - d) Draw conclusions.
 - e) Organize information and events logically.
 - f) Summarize major points found in nonfiction materials.
 - g) Identify the characteristics of biographies and autobiographies.
 - h) Compare and contrast the lives of two persons as described in biographies and/or autobiographies.
- E-RC 7 The student will read and demonstrate comprehension of fiction.
- (SOL 4.4) a) Explain the author's purpose.
 - b) Describe how the choice of language, setting, and information contribute to the author's purpose.
 - c) Compare the use of fact and fantasy in historical fiction with other forms of literature.
 - d) Identify major events and supporting details.
 - e) Describe the relationship between text and previously read materials.
 - f) Identify sensory words.
- E-RC 8 The student will read and demonstrate comprehension of nonfiction.
- (SOL 4.5) a) Use text organizers, such as type, headings, and graphics, to predict and categorize information.
 - b) Formulate questions that might be answered in the selection.
 - c) Explain the author's purpose.
 - d) Make simple inferences, using information from texts.
 - e) Draw conclusions, using information from texts.
 - f) Summarize content of selection, identifying important ideas and providing details for each important idea.
 - g) Describe the relationship between content and previously learned concepts or skills.
 - h) Distinguish between cause and effect and between fact and opinion.
 - i) Identify new information gained from reading.

- E-RC 9 The student will read and demonstrate comprehension of fiction.
- (SOL 5.5) a) Describe the relationship between text and previously read materials.
 - b) Describe character development in fiction and poetry selections.
 - c) Describe the development of plot and explain how conflicts are resolved.
 - d) Describe the characteristics of free verse, rhymed, and patterned poetry.
 - e) Describe how an author's choice of vocabulary and style contributes to the quality and enjoyment of selections.
- E-RC 10 The student will read and demonstrate comprehension of nonfiction.
- (SOL 5.6) a) Use text organizers, such as type, headings, and graphics, to predict and categorize information.
 - b) Identify structural patterns found in nonfiction.
 - c) Locate information to support opinions, predictions, and conclusions.
 - d) Identify cause-and-effect relationships.
 - e) Identify compare-and-contrast relationships.
 - f) Skim materials to develop a general overview of content and to locate specific information.
 - g) Identify new information gained from reading.
- E-RC 11 The student will read and demonstrate comprehension of a variety of fiction, narrative nonfiction, and poetry.
- (SOL 6.4) a) Identify the elements of narrative structure, including setting, character, plot, conflict, and theme.
 - b) Use knowledge of narrative and poetic structures to aid comprehension and predict outcomes.
 - c) Describe the images created by language.
 - d) Describe how word choice and imagery contribute to the meaning of a text.
 - e) Describe cause-effect relationships and their impact on plot.
 - f) Use information stated explicitly in the text to draw conclusions and make inferences.
 - g) Explain how character and plot development are used in a selection to support a central conflict or story line.
 - h) Paraphrase and summarize the main points in the text.

Teachers may use the *Mathematics ASOLs Summary Matrix* during the initial development of the student's instructional and assessment plan to track the learning progression of the student throughout the year and for planning units and lessons.

Mathematics ASOLs Summary Matrix							
Level of Complexity: Least Complex							
Reporting Category	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 11
Number and Number Sense (M-NS)	M-NS 1 M-NS 2 M-NS 3 M-NS 4 M-NS 5	M-NS 6 M-NS 7 M-NS 8 M-NS 9 M-NS 10 M-NS 11	M-NS 12 M-NS 13 M-NS 14 M-NS 15 M-NS 16	M-NS 17 M-NS 18 M-NS 19 M-NS 20 M-NS 21 M-NS 22 M-NS 23	M-NS 24 M-NS 25 M-NS 26 M-NS 27	M-NS 28 M-NS 29	M-NS 30 M-NS 31 M-NS 32 M-NS 33 M-NS 34
Computation and Estimation (M-CE)	M-CE 1	M-CE 2 M-CE 3 M-CE 4	M-CE 5 M-CE 6 M-CE 7 M-CE 8 M-CE 9	M-CE 10 M-CE 11 M-CE 12 M-CE 13 M-CE 14	M-CE 15 M-CE 16 M-CE 17 M-CE 18 M-CE 19	M-CE 20 M-CE 21 M-CE 22 M-CE 23 M-CE 24	M-CE 25 M-CE 26 M-CE 27
Measurement (M-M) and Geometry (M-G)	M-M 1 M-M 2 M-M 3 M-M 4 M-G 1 M-G 2 M-G 3	M-M 5 M-M 6 M-M 7 M-M 8 M-M 9 M-G 4 M-G 5 M-G 6	M-M 10 M-M 11 M-M 12 M-M 13 M-M 14 M-M 15 M-M 16 M-M 17 M-M 18 M-G 7 M-G 8 M-G 9	M-M 19 M-M 20 M-M 21 M-M 22 M-M 23 M-G 10 M-G 11 M-G 12	M-M 24 M-M 25 M-M 26 M-M 27 M-G 13 M-G 14 M-G 15 M-G 16 M-G 17	M-M 28 M-M 29 M-M 30 M-M 31 M-M 32 M-M 33 M-G 18 M-G 19 M-G 20	M-M 34 M-M 35 M-M 36 M-M 37 M-M 38 M-G 21 M-G 22 M-G 23 M-G 24
Probability and Statistics (M-PS) Patterns, Functions, and Algebra (M-PFA)	M-PS 1 M-PS 2 M-PS 3 M-PFA 1 M-PFA 2	M-PS 4 M-PS 5 M-PFA 3 M-PFA 4	M-PS 6 M-PS 7 M-PFA 5 M-PFA 6	M-PS 8 M-PS 9 M-PS 10 M-PFA 7 M-PFA 8	M-PS 11 M-PS 12 M-PFA 9 M-PFA 10	M-PS 13 M-PS 14 M-PS 15 M-PFA 11 M-PFA 12 M-PFA 13	M-PS 16 M-PS 17 M-PS 18 M-PFA 14 M-PFA 15 M-PFA 16

MATHEMATICS ALIGNED STANDARDS OF LEARNING

Reporting Category: Number and Number Sense

M-NS 1 (SOL K.1)	The student, given two sets containing 10 or fewer concrete items, will identify and describe one set as having more, fewer, or the same number of members as the other set, using the concept of one-to-one correspondence.
M-NS 2	The student, given a set containing 10 or fewer concrete items, will
(SOL K.2)	a) tell how many are in the set by counting the number of items orally;b) select the corresponding numeral from a given set;c) write the numeral to tell how many are in the set.
M-NS 3 (SOL K.3)	The student, given an ordered set of three objects and/or pictures, will indicate the ordinal position of each item, first through third, and the ordered position of each item from left-to-right, right-to-left, top-to-bottom, and/or bottom-to-top.
M-NS 4 (SOL K.4)	The student will investigate and recognize patterns from counting by fives and tens to 30, using concrete objects and a calculator.
M-NS 5 (SOL K.5)	The student will count forward to 30 and backward from 10.
M-NS 6 (SOL 1.1)	The student will count objects in a given set containing between 1 and 100 objects and write the corresponding numeral.
M-NS 7 (SOL 1.2)	The student will group a collection of up to 100 objects into tens and ones and write the corresponding numeral to develop an understanding of place value.
M-NS 8 (SOL 1.3)	The student will count forward by ones, fives, and tens to 100, by twos to 20, and backward by ones from 20.
M-NS 9 (SOL 1.4)	The student will recognize and write numerals 0 through 100.
M-NS 10 (SOL 1.5)	The student will identify the ordinal positions first through tenth, using an ordered set of objects.
M-NS 11 (SOL 1.6)	The student will identify and represent the concepts of one-half and one-fourth, using appropriate materials or a drawing.
M-NS 12	The student will
(SOL 2.1)	a) read, write, and identify the place value of each digit in a three-digit numeral, using numeration models;
	b) round two-digit numbers to the nearest ten.

M-NS 13 (SOL 2.2)	The student will compare two whole numbers between 0 and 999, using symbols (>, <, or =) and words (greater than, less than, or equal to).
M-NS 14 (SOL 2.3)	The student will identify the ordinal positions first through twentieth, using an ordered set of objects.
M-NS 15 (SOL 2.4)	The student will identify the part of a set and/or region that represents fractions for one-half, one-third, one-fourth, one-eighth, and one-tenth and write the corresponding fraction.
M-NS 16	The student will
(SOL 2.5)	 a) Count forward by twos, fives, and tens to 100, starting at various multiples of 2, 5, or 10, using mental mathematics, paper and pencil, hundred chart, calculators, and/or concrete objects, as appropriate; b) count backward by tens from 100; c) group objects by threes and fours; d) recognize even and odd numbers, using objects
M-NS 17 (SOL 3.1)	The student will read and write six-digit numerals and identify the place value for each digit.
M-NS 18 (SOL 3.2)	The student will round a whole number, 9,999 or less, to the nearest ten, hundred, and thousand.
M-NS 19 (SOL 3.3)	The student will compare two whole numbers between 0 and 9,999, using symbols (>, <, or =) and words (<i>greater than, less than</i> , or <i>equal to</i>).
M-NS 20 (SOL 3.4)	The student will recognize and use the inverse relationships between addition/subtraction and multiplication/division to complete basic fact sentences. Students will use these relationships to solve problems such as $5 + 3 = 8$ and $8 - 3 = $
M-NS 21	The student will
(SOL 3.5)	a) divide regions and sets to represent a fraction;b) name and write the fractions represented by a given model (area/region, length/measurement, and set). Fractions (including mixed numbers) will include halves, thirds, fourths, eighths, and tenths.
M-NS 22 (SOL 3.6)	The student will compare the numerical value of two fractions having like and unlike denominators, using concrete or pictorial models involving areas/regions, lengths/measurements, and sets.
M-NS 23 (SOL 3.7)	The student will read and write decimals expressed as tenths and hundredths, using concrete materials and models.

M-NS 24 The student will

- (SOL 4.1) a) identify (orally and in writing) the place value for each digit in a whole number expressed through millions;
 - b) compare two whole numbers expressed through millions, using symbols (>, <, or =);
 - c) round whole numbers expressed through millions to the nearest thousand, ten thousand, and hundred thousand.

M-NS 25 The student will

- (SOL 4.2) a) identify, model, and compare rational numbers (fractions and mixed numbers), using concrete objects and pictures;
 - b) represent equivalent fractions;
 - c) relate fractions to decimals, using concrete objects.
- M-NS 26 The student will compare the numerical value of fractions (with like and unlike denominators) having denominators of 12 or less, using concrete materials.

M-NS 27 The student will

- (SOL 4.4) a) read, write, represent, and identify decimals expressed through thousandths;
 - b) round to the nearest whole number, tenth, and hundredth;
 - c) compare the value of two decimals, using symbols (<, >, or =), concrete materials, drawings, and calculators.

M-NS 28 The student will

- (SOL 5.1) a) read, write, and identify the place values of decimals through thousandths;
 - b) round decimal numbers to the nearest tenth or hundredth;
 - c) compare the values of two decimals through thousandths, using the symbols >, <, or =.

M-NS 29 The student will

- (SOL 5.2) a) recognize and name commonly used fractions (halves, fourths, fifths, eighths, and tenths) in their equivalent decimal form and vice versa;
 - b) order a given set of fractions and decimals from least to greatest. Fractions will include like and unlike denominators limited to 12 or less, and mixed numbers.
- M-NS 30 The student will identify representations of a given percent and describe orally and in writing the equivalence relationships among fractions, decimals, and percents.
- M-NS 31 The student will describe and compare two sets of data, using ratios, and will use appropriate notations, such as a/b, a to b, and a:b.

M-NS 32	The student will
(SOL 6.3)	a) find common multiples and factors, including least common multiple and greatest common factor;b) identify and describe prime and composite numbers;c) identify and describe the characteristics of even and odd integers.
M-NS 33 (SOL 6.4)	The student will compare and order whole numbers, fractions, and decimals, using concrete materials, drawings or pictures, and mathematical symbols.
M-NS 34 (SOL 6.5)	The student will identify, represent, order, and compare integers Computation and Estimation.
Reporting Cate	egory: Computation and Estimation
M-CE 1 (SOL K.6)	The student will add and subtract whole numbers, using up to 10 concrete items.
M-CE 2	The student, given a familiar problem situation involving magnitude, will
(SOL 1.7)	a) select a reasonable magnitude from three given quantities: a one-digit numeral, a two-digit numeral, and a three-digit numeral (e.g., 5, 50, and 500);b) explain the reasonableness of his/her choice.
M-CE 3 (SOL 1.8)	The student will recall basic addition facts — i.e., sums to 10 or less — and the corresponding subtraction facts.
M-CE 4 (SOL 1.9)	The student will create and solve story and picture problems involving one-step solutions using basic addition and subtraction facts.
M-CE 5 (SOL 2.6)	The student will recall basic addition facts — i.e., sums to 18 or less — and the corresponding subtraction facts.
M-CE 6	The student, given two whole numbers whose sum is 99 or less, will
(SOL 2.7)	a) estimate the sum;b) find the sum, using various methods of calculation (mental computation, concrete materials, and paper and pencil).
M-CE 7	The student, given two whole numbers, each of which is 99 or less, will
(SOL 2.8)	a) estimate the difference;b) find the difference, using various methods of calculation (mental computation, concrete materials, and paper and pencil).
M-CE 8 (SOL 2.9)	The student will create and solve one-step addition and subtraction problems using data from simple tables, picture graphs, bar graphs, and practical situations.

M-CE 9 (SOL 2.10)	The student, given a simple addition or subtraction fact, will recognize and describe the related facts which represent and describe the inverse relationship between addition and subtraction (e.g., $3 + \underline{\hspace{0.2cm}} = 7$, $\underline{\hspace{0.2cm}} + 3 = 7$; $7 - 3 = \underline{\hspace{0.2cm}}$, and $7 - \underline{\hspace{0.2cm}} = 3$).
M-CE 10 (SOL 3.8)	The student will solve problems involving the sum or difference of two whole numbers, each 9,999 or less, with or without regrouping, using various computational methods, including calculators, paper and pencil, mental computation, and estimation.
M-CE 11 (SOL 3.9)	The student will recall the multiplication and division facts through the nines table.
M-CE 12 (SOL 3.10)	The student will represent multiplication and division, using area and set models, and create and solve problems that involve multiplication of two whole numbers, one factor 99 or less and the second factor 5 or less.
M-CE 13 (SOL 3.11)	The student will add and subtract with proper fractions having like denominators of 10 or less, using concrete materials and pictorial models representing areas/regions, lengths/measurements, and sets.
M-CE 14 (SOL 3.12)	The student will add and subtract with decimals expressed as tenths, using concrete materials, pictorial representations, and paper and pencil.
M-CE 15 (SOL 4.5)	The student will estimate whole-number sums and differences and describe the method of estimation. Students will refine estimates, using terms such as <i>closer to, between</i> , and <i>a little more than</i> .
M-CE 16 (SOL 4.6)	The student will add and subtract whole numbers written in vertical and horizontal form, choosing appropriately between paper and pencil methods and calculators.
M-CE 17 (SOL 4.7)	The student will find the product of two whole numbers when one factor has two digits or fewer and the other factor has three digits or fewer, using estimation and paper and pencil. For larger products (a two-digit numeral times a three-digit numeral), estimation and calculators will be used.
M-CE 18 (SOL 4.8)	The student will estimate and find the quotient of two whole numbers, given a one-digit divisor.
M-CE 19	The student will
(SOL 4.9)	 a) add and subtract with fractions having like and unlike denominators of 12 or less, using concrete materials, pictorial representations, and paper and pencil; b) add and subtract with decimals through thousandths, using concrete materials, pictorial representations, and paper and pencil; c) solve problems involving addition and subtraction with fractions having like and unlike denominators of 12 or less and with decimals expressed through thousandths, using various computational methods, including calculators, paper and pencil, mental appropriation, and estimation.

computation, and estimation.

M-CE 20 (SOL 5.3)	The student will create and solve problems involving addition, subtraction, multiplication, and division of whole numbers, using paper and pencil, estimation, mental computation, and calculators.
M-CE 21 (SOL 5.4)	The student will find the sum, difference, and product of two numbers expressed as decimals through thousandths, using an appropriate method of calculation, including paper and pencil, estimation, mental computation, and calculators.
M-CE 22 (SOL 5.5)	The student, given a dividend of four digits or fewer and a divisor of two digits or fewer, will find the quotient and remainder.
M-CE 23 (SOL 5.6)	The student, given a dividend expressed as a decimal through thousandths and a single-digit divisor, will find the quotient.
M-CE 24 (SOL 5.7)	The student will add and subtract with fractions and mixed numbers, with and without regrouping, and express answers in simplest form. Problems will include like and unlike denominators limited to 12 or less.
M-CE 25	The student will
(SOL 6.6)	a) solve problems that involve addition, subtraction, multiplication, and/or division with fractions and mixed numbers, with and without regrouping, that include like and unlike denominators of 12 or less, and express their answers in simplest form; and
	b) find the quotient, given a dividend expressed as a decimal through thousandths and a divisor expressed as a decimal to thousandths with exactly one non-zero digit.
M-CE 26 (SOL 6.7)	The student will use estimation strategies to solve multistep practical problems involving whole numbers, decimals, and fractions (rational numbers).
M-CE 27 (SOL 6.8)	The student will solve multistep consumer-application problems involving fractions and decimals and present data and conclusions in paragraphs, tables, or graphs. Planning a budget will be included.

Reporting Category: Measurement and Geometry

- M-M 1 The student will recognize a penny, nickel, dime, and quarter, and will determine the value of
- (SOL K.7) a collection of pennies and/or nickels whose total value is 10 cents or less.
- M-M 2 The student will identify the instruments used to measure length (ruler), weight (scale), time
- (SOL K.8) (clock: digital and analog; calendar: day, month, and season), and temperature (thermometer).
- M-M 3 The student will tell time to the hour, using an analog or digital clock.

(SOL K.9)

- M-M 4 The student will compare two objects or events, using direct comparisons or nonstandard
- units of measure, according to one or more of the following attributes: length (shorter, longer), height (taller, shorter), weight (heavier, lighter), temperature (hotter, colder). Examples of nonstandard units include foot length, hand span, new pencil, paper clip, block.
- M-M 5 The student will
- (SOL 1.10) a) identify the number of pennies equivalent to a nickel, a dime, and a quarter;
 - b) determine the value of a collection of pennies, nickels, and dimes whose total value is 100 cents or less.
- M-M 6 The student will tell time to the half-hour, using an analog or digital clock.

(SOL 1.11)

M-M 7 The student will use nonstandard units to measure length and weight.

(SOL 1.12)

- M-M 8 The student will compare the volumes of two given containers by using concrete materials
- (SOL 1.13) (e.g., jelly beans, sand, water, rice).
- M-M 9 The student will compare the weights of two objects, using a balance scale.

(SOL 1.14)

M-M 10 The student will

perimeter.

- (SOL 2.11) a) count and compare a collection of pennies, nickels, dimes, and quarters whose total value is \$2.00 or less;
 - b) identify the correct usage of the cent symbol (¢), dollar symbol (\$), and decimal point (.).
- M-M 11 The student will estimate and then use a ruler to make linear measurements to the nearest centimeter and inch, including measuring the distance around a polygon in order to determine
- M-M 12 The student, given grid paper, will estimate and then count the number of square units needed to cover a given surface in order to determine area.

- M-M 13 The student will estimate and then count the number of cubes in a rectangular box in order to determine volume.
- M-M 14 The student will estimate and then determine weight/mass of familiar objects in pounds and/or kilograms, using a scale.
- M-M 15 The student will tell and write time to the quarter hour, using analog and digital clocks. (SOL 2.16)
- M-M 16 The student will use actual measuring devices to compare metric and U.S. Customary units (SOL 2.17) (cups, pints, quarts, gallons, and liters) for measuring liquid volume, using the concepts of *more*, *less*, and *equivalent*.
- M-M 17 The student will
- (SOL 2.18) a) use calendar language appropriately (e.g., *months, today, yesterday, next week, last week*);
 - b) determine past and future days of the week;
 - c) identify specific dates on a given calendar.
- M-M 18 The student will read the temperature on a Celsius and/or Fahrenheit thermometer to the nearest 10 degrees.
- M-M 19 The student will determine by counting the value of a collection of bills and coins whose total value is \$5.00 or less, compare the value of the coins or bills, and make change.
- M-M 20 The student will estimate and then use actual measuring devices with metric and U.S. Customary units to measure
 - a) length inches, feet, yards, centimeters, and meters;
 - b) liquid volume cups, pints, quarts, gallons, and liters;
 - c) weight/mass ounces, pounds, grams, and kilograms.
- M-M 21 The student will tell time to the nearest five-minute interval and to the nearest minute, using analog and digital clocks.
- M-M 22 The student will identify equivalent periods of time, including relationships among days, months, and years, as well as minutes and hours.
- M-M 23 The student will read temperature to the nearest degree from a Celsius thermometer and a Fahrenheit thermometer. Real thermometers and physical models of thermometers will be used.

M-M 24 The student will

- (SOL 4.10) a) estimate and measure weight/mass, using actual measuring devices, and describe the results in U.S. Customary/metric units as appropriate, including ounces, pounds, grams, and kilograms;
 - b) identify equivalent measurements between units within the U.S. Customary system (ounces and pounds) and between units within the metric system (grams and kilograms);
 - c) estimate the conversion of ounces and grams and pounds and kilograms, using approximate comparisons (1 ounce is about 28 grams, or 1 gram is about the weight of a paper clip; 1 kilogram is a little more than 2 pounds). *
 - * The intent of this standard is for students to make ballpark comparisons and not to memorize conversion factors between U.S. Customary and metric units.

M-M 25 The student will

- (SOL 4.11) a) estimate and measure length, using actual measuring devices, and describe the results in both metric and U.S. Customary units, including part of an inch (1/2, 1/4, and 1/8), inches, feet, yards, millimeters, centimeters, and meters;
 - b) identify equivalent measurements between units within the U.S. Customary system (inches and feet; feet and yards; inches and yards), and between units within the metric system (millimeters and centimeters; centimeters and meters; and millimeters and meters);
 - c) estimate the conversion of inches and centimeters, yards and meters, and miles and kilometers, using approximate comparisons (1 inch is about 2.5 centimeters, 1 meter is a little longer than 1 yard, 1 mile is slightly farther than 1.5 kilometers, or 1 kilometer is slightly farther than half a mile). *
 - * The intent of this standard is for students to make ballpark comparisons and not to memorize conversion factors between U.S. Customary and metric units.

M-M 26 The student will

- (SOL 4.12) a) estimate and measure liquid volume, using actual measuring devices and using metric and U.S. Customary units, including cups, pints, quarts, gallons, milliliters, and liters;
 - b) identify equivalent measurements between units within the U.S. Customary system (cups, pints, quarts, and gallons) and between units within the metric system (milliliters and liters);
 - c) estimate the conversion of quarts and liters, using approximate comparisons (1 quart is a little less than 1 liter, 1 liter is a little more than 1 quart).*

^{*} The intent of this standard is for students to make ballpark comparisons and not to memorize conversion factors between U.S. Customary and metric units.

- M-M 27 The student will
- (SOL 4.13) a) identify and describe situations representing the use of perimeter and area;
 - b) use measuring devices to find perimeter in both standard and nonstandard units of measure.
- M-M 28 The student will describe and determine the perimeter of a polygon and the area of a square, rectangle, and right triangle, given the appropriate measures.
- M-M 29 The student will identify and describe the diameter, radius, chord, and circumference of a circle.
- M-M 30 The student will differentiate between perimeter, area, and volume and identify whether the application of the concept of perimeter, area, or volume is appropriate for a given situation.
- M-M 31 The student will choose an appropriate measuring device and unit of measure to solve problems involving measurement of
 - a) length part of an inch (1/2, 1/4, and 1/8), inches, feet, yards, miles, millimeters, centimeters, meters, and kilometers;
 - b) weight/mass ounces, pounds, tons, grams, and kilograms;
 - c) liquid volume cups, pints, quarts, gallons, milliliters, and liters;
 - d) area square units;
 - e) temperature Celsius and Fahrenheit units.

Problems also will include estimating the conversion of Celsius and Fahrenheit units relative to familiar situations (water freezes at 0°C and 32°F, water boils at 100°C and 212°F, normal body temperature is about 37°C and 98.6°F).

- M-M 32 The student will determine an amount of elapsed time in hours and minutes within a 24-hour period.
- M-M 33 The student will measure and draw right, acute, and obtuse angles and triangles, using appropriate tools.
- M-M 34 The student will compare and convert units of measure for length, area, weight/mass, and volume within the U.S. Customary system and the metric system and estimate conversions between units in each system:
 - a) length part of an inch (1/2, 1/4, and 1/8), inches, feet, yards, miles, millimeters, centimeters, meters, and kilometers;
 - b) weight/mass ounces, pounds, tons, grams, and kilograms;
 - c) liquid volume cups, pints, quarts, gallons, milliliters, and liters; and
 - d) area square units. *

^{*} The intent of this standard is for students to make ballpark comparisons and not to memorize conversion factors between U.S. Customary and metric units.

- M-M 35 The student will estimate and then determine length, weight/mass, area, and liquid volume/capacity, using standard and nonstandard units of measure.
- M-M 36 The student will determine if a problem situation involving polygons of four or fewer sides represents the application of perimeter or area and apply the appropriate formula.

M-M 37 The student will

- (SOL 6.12) a) solve problems involving the circumference and/or area of a circle when given the diameter or radius;
 - b) derive approximations for pi (π) from measurements for circumference and diameter, using concrete materials or computer models.

M-M 38 The student will

- (SOL 6.13) a) estimate angle measures, using 45°, 90°, and 180° as referents, and use the appropriate tools to measure the given angles;
 - b) measure and draw right, acute, and obtuse angles and triangles.

Reporting Category: Measurement and Geometry

Geometry

- M-G 1 The student will identify, describe, and draw two-dimensional (plane) geometric figures (circle, triangle, square, and rectangle).
- M-G 2 The student will describe the location of one object relative to another (above, below, next to) and identify representations of plane geometric figures (circle, triangle, square, and rectangle) regardless of their position and orientation in space.
- M-G 3 The student will compare the size (larger, smaller) and shape of plane geometric figures (SOL K.13) (circle, triangle, square, and rectangle).
- M-G 4 The student will describe the proximity of objects in space (*near, far, close by, below, above, up, down, beside,* and *next to*).
- M-G 5 The student will draw, describe, and sort plane geometric figures (triangle, square, rectangle, and circle) according to number of sides, corners, and square corners.
- M-G 6 The student will identify and describe objects in his/her environment that depict plane geometric figures (triangle, rectangle, square, and circle).
- M-G7 The student will identify, describe, and sort three-dimensional (solid) concrete figures, including a cube, rectangular solid (prism), square pyramid, sphere, cylinder, and cone, according to the number and shape of the solid's faces, edges, and corners.

- M-G 8 The student will identify and create figures, symmetric along a line, using various concrete materials.
- M-G 9 The student will compare and contrast plane and solid geometric shapes (circle/sphere,
- (SOL 2.22) square/cube, and rectangle/rectangular solid).
- M-G 10 The student will analyze two-dimensional (plane) and three-dimensional (solid) geometric
- figures (circle, square, rectangle, triangle, cube, rectangular solid [prism], square pyramid, sphere, cone, and cylinder) and identify relevant properties, including the number of corners, square corners, edges, and the number and shape of faces, using concrete models.
- M- G 11 The student will identify and draw representations of line segments and angles, using a ruler or straightedge.
- M-G 12 The student, given appropriate drawings or models, will identify and describe congruent and symmetrical, two-dimensional (plane) figures, using tracing procedures.
- M-G 13 The student will investigate and describe the relationships between and among points, lines, line segments, and rays.
- M-G 14 The student will
- (SOL 4.15) a) identify and draw representations of points, lines, line segments, rays, and angles, using a straightedge or ruler;
 - b) describe the path of shortest distance between two points on a flat surface.
- M-G 15 The student will identify and draw representations of lines that illustrate intersection, parallelism, and perpendicularity.
- M-G 16 The student will
- (SOL 4.17) a) analyze and compare the properties of two-dimensional (plane) geometric figures (circle, square, rectangle, triangle, parallelogram, and rhombus) and three-dimensional (solid) geometric figures (sphere, cube, and rectangular solid [prism]);
 - b) identify congruent and noncongruent shapes;
 - c) investigate congruence of plane figures after geometric transformations such as reflection (flip), translation (slide) and rotation (turn), using mirrors, paper folding, and tracing.
- M-G 17 The student will identify the ordered pair for a point and locate the point for an ordered pair in the first quadrant of a coordinate plane.
- M-G 18 The student will classify angles and triangles as right, acute, or obtuse.

(SOL 5.14)

- M-G 19 The student, using two-dimensional (plane) figures (square, rectangle, triangle, parallelogram, rhombus, kite, and trapezoid) will
 - a) recognize, identify, describe, and analyze their properties in order to develop definitions of these figures;
 - b) identify and explore congruent, noncongruent, and similar figures;
 - c) investigate and describe the results of combining and subdividing shapes;
 - d) identify and describe a line of symmetry;
 - e) recognize the images of figures resulting from geometric transformations such as translation (slide), reflection (flip), or rotation (turn).
- M-G 20 The student will identify, compare, and analyze properties of three-dimensional (solid)
- (SOL 5.16) geometric shapes (cylinder, cone, cube, square pyramid, and rectangular prism).
- M-G 21 The student will identify, classify, and describe the characteristics of plane figures,
- (SOL 6.14) describing their similarities, differences, and defining properties.
- M-G 22 The student will determine congruence of segments, angles, and polygons by direct
- (SOL 6.15) comparison, given their attributes. Examples of noncongruent and congruent figures will be included.
- M-G 23 The student will construct the perpendicular bisector of a line segment and an angle bisector.
- (SOL 6.16)
- M-G 24 The student will sketch, construct models of, and classify solid figures (rectangular prism,
- (SOL 6.17) cone, cylinder, and pyramid).

Reporting Category: Probability and Statistics

- M-PS 1 The student will gather data relating to familiar experiences by counting and tallying.
- (SOL K.14)
- M-PS 2 The student will display objects and information, using objects graphs, pictorial graphs, and
- (SOL K.15) tables.
- M-PS 3 The student will investigate and describe the results of dropping a two-colored counter or
- (SOL K.16) using a multicolored spinner.
- M-PS 4 The student will investigate, identify, and describe various forms of data collection in his/her
- (SOL 1.18) world (e.g., recording daily temperature, lunch count, attendance, and favorite ice cream), using tables, picture graphs, and object graphs.
- M-PS 5 The student will interpret information displayed in a picture or object graph, using the
- (SOL 1.19) vocabulary more, less, fewer, greater than, less than, and equal to.
- M-PS 6 The student will read, construct, and interpret a simple picture and bar graph.

(SOL 2.23)

- M-PS 7 The student will record data from experiments, using spinners and colored tiles/cubes, and use the data to predict which of two events is more likely to occur if the experiment is repeated.
- M-PS 8 The student, given grid paper, will
- (SOL 3.21) a) collect and organize data on a given topic of his/her choice, using observations, measurements, surveys, or experiments;
 - b) construct a line plot, a picture graph, or a bar graph to represent the results. Each graph will include an appropriate title and key.
- M-PS 9 The student will read and interpret data represented in line plots, bar graphs, and picture graphs and write a sentence analyzing the data.
- M-PS 10 The student will investigate and describe the concept of probability as chance and list possible results of a given situation.
- M-PS 11 The student will
- (SOL 4.19) a) predict the likelihood of outcomes of a simple event, using the terms *certain, likely, unlikely, impossible*;
 - b) determine the probability of a given simple event, using concrete materials.
- M-PS 12 The student will collect, organize, and display data in line and bar graphs with scale increments of one or greater than one and use the display to interpret the results, draw conclusions, and make predictions.
- M-PS 13 The student will
- (SOL 5.17) a) solve problems involving the probability of a single event by using tree diagrams or by constructing a sample space representing all possible results;
 - b) predict the probability of outcomes of simple experiments, representing it with fractions or decimals from 0 to 1, and test the prediction;
 - c) create a problem statement involving probability and based on information from a given problem situation. Students will not be required to solve the created problem statement.
- M-PS 14 The student will, given a problem situation, collect, organize, and display a set of numerical data in a variety of forms, using bar graphs, stem-and-leaf plots, and line graphs, to draw conclusions and make predictions.
- M-PS 15 The student will find the mean, median, mode, and range of a set of data. (SOL 5.19)

- M-PS 16 The student, given a problem situation, will collect, analyze, display, and interpret data in a variety of graphical methods, including
 - a) line, bar, and circle graphs;*
 - b) stem-and-leaf plots;
 - c) box-and-whisker plots.
 - *Circle graphs will be limited to halves, fourths, and eighths.
- M-PS 17 The student will describe the mean, median, and mode as measures of central tendency, describe the range, and determine their meaning for a set of data.
- M-PS 18 The student will
- (SOL 6.20) a) make a sample space for selected experiments and represent it in the form of a list, chart, picture, or tree diagram;
 - b) determine and interpret the probability of an event occurring from a given sample space and represent the probability as a ratio, decimal or percent, as appropriate for the given situation.

Reporting Category: Patterns, Functions, and Algebra

- M-PFA 1 The student will sort and classify objects according to similar attributes (size, shape, and color).
- M-PFA 2 The student will identify, describe, and extend a repeating relationship (pattern) found in common objects, sounds, and movements.
- M-PFA 3 The student will sort and classify concrete objects according to one or more attributes, including color, size, shape, and thickness.
- M-PFA 4 The student will recognize, describe, extend, and create a wide variety of patterns, including rhythmic, color, shape, and numerical. Patterns will include both growing and repeating patterns. Concrete materials and calculators will be used by students.
- M-PFA 5 The student will identify, create and extend a wide variety of patterns, using numbers, concrete objects, and pictures.
- M-PFA 6 The student will solve problems by completing a numerical sentence involving the basic facts for addition and subtraction. Examples include: 3+__=7, or 9-__=2. Students will create story problems, using the numerical sentences.
- M-PFA 7 The student will recognize and describe a variety of patterns formed using concrete objects, numbers, tables, and pictures, and extend the pattern, using the same or different forms (concrete objects, numbers, tables, and pictures).

M-PFA 8 The student will

- (SOL 3.25) a) investigate and create patterns involving numbers, operations (addition and multiplication), and relations that model the identity and commutative properties for addition and multiplication;
 - b) demonstrate an understanding of equality by recognizing that the equal sign (=) links equivalent quantities, such as $4 \cdot 3 = 2 \cdot 6$.
- M-PFA 9 The student will recognize, create, and extend numerical and geometric patterns, using concrete materials, number lines, symbols, tables, and words.
- M-PFA 10 The student will recognize and demonstrate the meaning of equality, using symbols representing numbers, operations, and relations [e.g., 3 + 5 = 5 + 3 and 15 + (35 + 16) = (15 + 35) + 16].
- M-PFA 11 The student will analyze the structure of numerical and geometric patterns (how they change or grow), and express the relationship, using words, tables, graphs, or a mathematical sentence. Concrete materials and calculators will be used.

M-PFA 12 The student will

- (SOL 5.21) a) investigate and describe the concept of variable;
 - b) use a variable expression to represent a given verbal quantitative expression involving one operation;
 - c) write an open sentence to represent a given mathematical relationship, using a variable.
- M-PFA 13 The student will create a problem situation based on a given open sentence using a single variable.
- M-PFA 14 The student will investigate, describe, and extend numerical and geometric patterns, including triangular numbers, patterns formed by powers of 10, and arithmetic sequences.
- M-PFA 15 The student will investigate and describe concepts of positive exponents, perfect squares, square roots, and, for numbers greater than 10, scientific notation. Calculators will be used to develop exponential patterns.

M-PFA 16 The student will

- (SOL 6.23)
 a) model and solve algebraic equations, using concrete materials;
 b) solve one-step linear equations in one variable, involving whole number coefficients and positive rational solutions;
 - c) use the following algebraic terms appropriately: *variable, coefficient, term*, and *equation*.

Teachers may use the *Science ASOL Summary Matrix* during the initial development of the student's instructional and assessment plan to track the learning progression of the student throughout the year and for planning units and lessons.

Science ASOL Summary Matrix					
Level of Complexity:	Least Co	mplex		→Most C	
Reporting Category	Grade 3	Grade 5	Grade 8	Grade 11	
Scientific Investigation (S-SI) Resources (S-R)	S-SI1 S-SI2 S-R1	S-SI3 S-SI4 S-SI5 S-R2 S-R3 S-R4 S-R5	S-SI6 S-R6	S-S17	
Forces, Motion, Energy (S-FME) and	S-FME1 S-M1	S-FME2 S-FME3 S-FME4	S-FME5 S-FME6	S-FME7 S-FME8	
Matter (S-M)	S-M2	S-M3 S-M4 S-M5		S-M6	
Life Processes (S-LP) and Living Systems (S-LS)	S-LP1	S-LP2 S-LP3 S-LP4 S-LP5	S-LP6 S-LS4	S-LS5 S-LFS1 S-LFS2	S-ES1 S-ES2 S-ES3 S-ES4
Life Science (S-LFS)		S-LS1 S-LS2 S-LS3		S-LFS3 S-LFS4 S-LFS5 S-LFS6	S-ES5 S-ES6 S-ES7 S-ES8
Earth Science (S-ES)		S-LS3		S-LFS0 S-LFS7 S-LFS8 S-LFS9 S-LFS10 S-LFS11	S-ES8 S-ES9
Interrelationships in Earth/Space Systems (S-IE) and Earth Patterns, Cycles, and Changes (S-EP)	S-IE1 S-EP1 S-EP2	S-IE2 S-IE3 S-IE4	S-IE5 S-EP7	S-IE6 S-IE7 S-EP8	
		S-EP3 S-EP4 S-EP5 S-EP6			

Reporting Category: Scientific Investigation

- S-SI 1 The student will conduct investigations in which
- (SOL K.1) a) basic properties of objects are identified by direct observation;
 - b) observations are made from multiple positions to achieve different perspectives;
 - c) objects are described both pictorially and verbally;
 - d) a set of objects is sequenced according to size;
 - e) a set of objects is separated into two groups based on a single physical attribute;
 - f) nonstandard units are used to measure common objects;
 - g) a question is developed from one or more observations;
 - h) picture graphs are constructed using 10 or fewer units;
 - i) an unseen member in a sequence of objects is predicted;
 - j) unusual or unexpected results in an activity are recognized.
- S-SI 2 Students will investigate and understand that humans have senses that allow one to seek, find, take in, and react or respond to information in order to learn about one's surroundings. Key concepts include
- (SOL K.2) a) five senses and corresponding sensing organs (taste tongue, touch skin, smell nose, hearing ears, and sight eyes);
 - b) sensory descriptors (sweet, sour, bitter, salty, rough/smooth, hard/soft, cold, warm, hot, loud/soft, high/low, bright/dull).
- S-SI 3 The student will conduct investigations in which
- (SOL 1.1) a) differences in physical properties are observed using the senses;
 - b) simple tools are used to enhance observations;
 - c) objects or events are classified and arranged according to attributes or properties;
 - d) observations and data are communicated orally and with simple graphs, pictures, written statements, and numbers;
 - e) length, mass, and volume are measured using standard and nonstandard units;
 - f) predictions are based on patterns of observation rather than random guesses;
 - g) simple experiments are conducted to answer questions;
 - h) inferences are made and conclusions are drawn about familiar objects and events.
- S-SI 4 The student will conduct investigations in which
- (SOL 2.1) a) observation is differentiated from personal interpretation, and conclusions are drawn based on observations;
 - b) observations are repeated to ensure accuracy:
 - c) two or more attributes are used to classify items;
 - d) conditions that influence a change are defined;
 - e) length, volume, mass, and temperature measurements are made in metric units (centimeters, meters, liters, degrees Celsius, grams, kilograms) and standard English units (inches, feet, yards, cups, pints, quarts, gallons, degrees Fahrenheit, ounces, pounds):
 - f) pictures and bar graphs are constructed using numbered axes;
 - g) unexpected or unusual quantitative data are recognized;
 - h) simple physical models are constructed.

- S-SI 5 The student will plan and conduct investigations in which
- (SOL 3.1) a) predictions and observations are made;
 - b) objects with similar characteristics are classified into at least two sets and two subsets;
 - c) questions are developed to formulate hypotheses;
 - d) volume is measured to the nearest milliliter and liter;
 - e) length is measured to the nearest centimeter;
 - f) mass is measured to the nearest gram;
 - g) data are gathered, charted, and graphed (line plot, picture graph, and bar graph);
 - h) temperature is measured to the nearest degree Celsius;
 - i) time is measured to the nearest minute;
 - j) inferences are made and conclusions are drawn;
 - k) natural events are sequenced chronologically.
- S-SI 6 The student will plan and conduct investigations in which
- (SOL 4.1) a) distinctions are made among observations, conclusions, inferences, and predictions;
 - b) hypotheses are formulated based on cause-and-effect relationships;
 - c) variables that must be held constant in an experimental situation are defined;
 - d) appropriate instruments are selected to measure linear distance, volume, mass, and temperature:
 - e) appropriate metric measures are used to collect, record, and report data;
 - f) data are displayed using bar and basic line graphs;
 - g) numerical data that are contradictory or unusual in experimental results are recognized;
 - h) predictions are made based on data from picture graphs, bar graphs, and basic line graphs.
- S-SI 7 The student will plan and conduct investigations in which
- (SOL 5.1) a) rocks, minerals, and organisms are identified using a classification key;
 - b) estimations of length, mass, and volume are made;
 - c) appropriate instruments are selected and used for making quantitative observations of length, mass, volume, and elapsed time;
 - d) accurate measurements are made using basic tools (thermometer, meter stick, balance, graduated cylinder):
 - e) data are collected, recorded, and reported using the appropriate graphical representation (graphs, charts, diagrams);
 - f) predictions are made using patterns, and simple graphical data are extrapolated;
 - g) manipulated and responding variables are identified;
 - h) an understanding of the nature of science is developed and reinforced.

Reporting Category: Scientific Investigation

Resources

- S-R 1 The student will investigate and understand that materials can be reused, recycled, and conserved. Key concepts include
- (SOL K.1) a) materials and objects can be used over and over again;
 - b) everyday materials can be recycled;
 - c) water and energy conservation at home and in school helps preserve resources for future use.
- S-R 2 The student will investigate and understand that natural resources are limited. Key concepts include
- (SOL 1.8) a) identification of natural resources (plants and animals, water, air, land, minerals, forests, and soil);
 - b) factors that affect air and water quality;
 - c) recycling, reusing, and reducing consumption of natural resources.
- S-R 3 The student will investigate and understand that plants produce oxygen and food, are a source of useful products, and provide benefits in nature. Key concepts include
- (SOL 2.8) a) important plant products (fiber, cotton, oil, spices, lumber, rubber, medicines, and paper);
 - b) the availability of plant products affects the development of a geographic area;
 - c) plants provide homes and food for many animals and prevent soil from washing away.
- S-R 4 The student will investigate and understand that natural events and human influences can affect the survival of species. Key concepts include
- (SOL 3.10) a) the interdependency of plants and animals;
 - b) the effects of human activity on the quality of air, water, and habitat;
 - c) the effects of fire, flood, disease, and erosion on organisms;
 - d) conservation and resource renewal.
- S-R 5 The student will investigate and understand different sources of energy. Key concepts include
- (SOL 3.11) a) the sun's ability to produce light and heat energy;
 - b) sources of energy (sunlight, water, wind);
 - c) fossil fuels (coal, oil, natural gas) and wood;
 - d) renewable and nonrenewable energy resources.

- S-R 6 The student will investigate and understand important Virginia natural resources. Key concepts include
- (SOL 4.8) a) watershed and water resources;
 - b) animals and plants;
 - c) minerals, rocks, ores, and energy sources;
 - d) forests, soil, and land.

Reporting Category: Force, Motion, Energy, and Matter

Force, Motion, and Energy

- S-FME 1 The student will investigate and understand that magnets have an effect on some materials, make some things move without touching them, and have useful applications. Key concepts include
- (SOL K.3) a) attraction/nonattraction, push/pull, attract/repel, and metal/nonmetal;
 - b) useful applications (refrigerator magnet, can opener, magnetized screwdriver, and magnetic games).
- S-FME 2 The student will investigate and understand that moving objects exhibit different kinds of motion. Key concepts include
- (SOL 1.2) a) objects may have straight, circular, and back-and-forth motions;
 - b) objects may vibrate and produce sound;
 - c) pushes or pulls can change the movement of an object;
 - d) the motion of objects may be observed in toys and in playground activities.
- S-FME 3 The student will investigate and understand that natural and artificial magnets have certain characteristics and attract specific types of metals. Key concepts include
- (SOL 2.2) a) magnetism, iron, magnetic/nonmagnetic, poles, attract/repel;
 - b) important applications of magnetism including the magnetic compass.
- S-FME 4 The student will investigate and understand simple machines and their uses. Key concepts include
- (SOL 3.2) a) types of simple machines (lever, screw, pulley, wheel and axle, inclined plane, and wedge);
 - b) how simple machines function;
 - c) compound machines (scissors, wheelbarrow, and bicycle);
 - d) examples of simple and compound machines found in the school, home, and work environment.
- S-FME 5 The student will investigate and understand characteristics and interaction of moving objects. Key concepts include
- (SOL 4.21) a) motion is described by an object's direction and speed;
 - b) forces cause changes in motion;
 - c) friction is a force that opposes motion;
 - d) moving objects have kinetic energy.

- S-FME 6 The student will investigate and understand the characteristics of electricity. Key concepts include
- (SOL 4.3) a) conductors and insulators;
 - b) basic circuits (open/closed, parallel/series);
 - c) static electricity;
 - d) the ability of electrical energy to be transformed into heat, light, and mechanical energy;
 - e) simple electromagnets and magnetism;
 - f) historical contributions in understanding electricity.
- S-FME 7 The student will investigate and understand how sound is transmitted and is used as a means of communication. Key concepts include
- (SOL 5.2) a) frequency, waves, wavelength, vibration;
 - b) the ability of different media (solids, liquids, and gases) to transmit sound;
 - c) uses and applications (voice, sonar, animal sounds, and musical instruments).
- S-FME 8 The student will investigate and understand basic characteristics of visible light and how it behaves. Key concepts include
- (SOL 5.3) a) the visible spectrum and light waves;
 - b) refraction of light through water and prisms;
 - c) reflection of light from reflective surfaces (mirrors);
 - d) opaque, transparent, and translucent;
 - e) historical contributions in understanding light.

Reporting Category: Forces, Motion, Energy, and Matter

Matter

- S-M 1 The student will investigate and understand that the position, motion, and physical properties of an object can be described. Key concepts include
- (SOL K.4) a) colors (red, orange, yellow, green, blue, purple), white, and black;
 - b) shapes (circle, triangle, square, and rectangle) and forms (flexible/stiff, straight/curved);
 - c) textures (rough/smooth) and feel (hard/soft);
 - d) relative size and weight (big/little, large/small, heavy/light, wide/thin, long/short);
 - e) position (over/under, in/out, above/below, left/right) and speed (fast/slow).
- S-M 2 The student will investigate and understand that water flows and has properties that can be observed and tested. Key concepts include
- (SOL K.5) a) water occurs in different states (solid, liquid, gas);
 - b) the natural flow of water is downhill;
 - c) some materials float in water, while others sink.
- S-M 3 The student will investigate and understand how different common materials interact with water. Key concepts include
- (SOL 1.3) a) some liquids will separate when mixed with water, but others will not;
 - b) some common solids will dissolve in water, but others will not;
 - c) some substances will dissolve more readily in hot water than in cold water.
- S-M 4 The student will investigate and understand basic properties of solids, liquids, and gases. Key concepts include
- (SOL 2.3) a) mass and volume;
 - b) processes involved with changes in matter from one state to another (condensation, evaporation, melting, and freezing).
- S-M 5 The student will investigate and understand that objects are made of materials that can be described by their physical properties. Key concepts include
- (SOL 3.3) a) objects are made of one or more materials;
 - b) materials are composed of parts that are too small to be seen without magnification;
 - c) physical properties remain the same as the material is reduced in size.
- S-M 6 The student will investigate and understand that matter is anything that has mass, takes up space, and occurs as a solid, liquid, or gas. Key concepts include
- (SOL 5.4) a) atoms, elements, molecules, and compounds;
 - b) mixtures including solutions;
 - c) the effect of heat on the states of matter.

Reporting Category: Life Processes and Living Systems

Life Processes

- S-LP 1 The student will investigate and understand basic needs and life processes of plants and animals. Key concepts include
- (SOL K.6) a) living things change as they grow, and they need food, water, and air to survive;
 - b) plants and animals live and die (go through a life cycle);
 - c) offspring of plants and animals are similar but not identical to their parents and to one another.
- S-LP 2 The student will investigate and understand that plants have life needs and functional parts and can be classified according to certain characteristics. Key concepts include
- (SOL 1.4) a) needs (food, air, water, light, and a place to grow);
 - b) parts (seeds, roots, stems, leaves, blossoms, fruits);
 - c) characteristics (edible/nonedible, flowering/nonflowering, evergreen/deciduous).
- S-LP 3 The student will investigate and understand that animals, including people, have life needs and specific physical characteristics and can be classified according to certain characteristics. Key concepts include
- (SOL 1.5) a) life needs (air, food, water, and a suitable place to live);
 - b) physical characteristics (body coverings, body shape, appendages, and methods of movement);
 - c) other characteristics (wild/tame, water homes/land homes).
- S-LP 4 The student will investigate and understand that plants and animals undergo a series of orderly changes in their life cycles. Key concepts include
- (SOL 2.4) a) some animals (frogs and butterflies) undergo distinct stages during their lives, while others generally resemble their parents;
 - b) flowering plants undergo many changes, from the formation of the flower to the development of the fruit.
- S-LP 5 The student will investigate and understand that behavioral and physical adaptations allow animals to respond to life needs. Key concepts include
- (SOL 3.4) a) methods of gathering and storing food, finding shelter, defending themselves, and rearing young;
 - b) hibernation, migration, camouflage, mimicry, instinct, and learned behavior.
- S-LP 6 The student will investigate and understand basic plant anatomy and life processes. Key concepts include
- (SOL 4.4) a) the structures of typical plants (leaves, stems, roots, and flowers);
 - b) processes and structures involved with reproduction (pollination, stamen, pistil, sepal, embryo, spore, and seed);
 - c) photosynthesis (sunlight, chlorophyll, water, carbon dioxide, oxygen, and sugar);
 - d) dormancy.

Reporting Category: Life Processes and Living Systems

Living Systems

- S-LS 1 The student will investigate and understand that living things are part of a system. Key concepts include
- (SOL 2.5) a) living organisms are interdependent with their living and nonliving surroundings;
 - b) habitats change over time due to many influences.
- S-LS 2 The student will investigate and understand relationships among organisms in aquatic and terrestrial food chains. Key concepts include
- (SOL 3.5) a) producer, consumer, decomposer;
 - b) herbivore, carnivore, omnivore;
 - c) predator and prey.
- S-LS 3 The student will investigate and understand that environments support a diversity of plants and animals that share limited resources. Key concepts include
- (SOL 3.6) a) water-related environments (pond, marshland, swamp, stream, river, and ocean environments);
 - b) dry-land environments (desert, grassland, rain forest, and forest environments);
 - c) population and community.
- S-LS 4 The student will investigate and understand how plants and animals in an ecosystem interact with one another and the nonliving environment. Key concepts include
- (SOL 4.5) a) behavioral and structural adaptations;
 - b) organization of communities;
 - c) flow of energy through food webs;
 - d) habitats and niches;
 - e) life cycles;
 - f) influence of human activity on ecosystems.
- S-LS 5 The student will investigate and understand that organisms are made of cells and have distinguishing characteristics. Key concepts include
- (SOL 5.5) a) basic cell structures and functions;
 - b) kingdoms of living things;
 - c) vascular and nonvascular plants;
 - d) vertebrates and invertebrates.

Reporting Category: Life Processes and Living Systems

Life Science

- S-LFS1 The student will plan and conduct investigations in which
- (SOL LS.1) a) data are organized into tables showing repeated trials and means;
 - b) variables are defined:
 - c) metric units (SI—International System of Units) are used;
 - d) models are constructed to illustrate and explain phenomena;
 - e) sources of experimental error are identified;
 - f) dependent variables, independent variables, and constants are identified;
 - g) variables are controlled to test hypotheses, and trials are repeated;
 - h) continuous line graphs are constructed, interpreted, and used to make predictions;
 - i) interpretations from a set of data are evaluated and defended;
 - j) an understanding of the nature of science is developed and reinforced.
- S-LFS2 The student will investigate and understand that all living things are composed of cells. Key concepts include
- (SOL LS.2) a) cell structure and organelles (cell membrane, cell wall, cytoplasm, vacuole, mitochondrion, endoplasmic reticulum, nucleus, and chloroplast);
 - b) similarities and differences between plant and animal cells;
 - c) development of cell theory;
 - d) cell division (mitosis and meiosis).
- S-LFS3 The student will investigate and understand that living things show patterns of cellular organization. Key concepts include
- (SOL LS.3) a) cells, tissues, organs, and systems;
 - b) life functions and processes of cells, tissues, organs, and systems (respiration, removal of wastes, growth, reproduction, digestion, and cellular transport).
- S-LFS4 The student will investigate and understand that the basic needs of organisms must be met in order to carry out life processes. Key concepts include
- (SOL LS.4) a) plant needs (light, water, gases, and nutrients);
 - b) animal needs (food, water, gases, shelter, space);
 - c) factors that influence life processes.
- S-LFS5 The student will investigate and understand how organisms can be classified. Key concepts include
- (SOL LS.5) a) the distinguishing characteristics of kingdoms of organisms;
 - b) the distinguishing characteristics of major animal and plant phyla;
 - c) the characteristics of the species.

- S-LFS6 The student will investigate and understand the basic physical and chemical processes of photosynthesis and its importance to plant and animal life. Key concepts include
- (SOL LS.6) a) energy transfer between sunlight and chlorophyll;
 - b) transformation of water and carbon dioxide into sugar and oxygen;
 - c) photosynthesis as the foundation of virtually all food webs.
- S-LFS7 The student will investigate and understand that organisms within an ecosystem are dependent on one another and on nonliving components of the environment. Key concepts include
- (SOL LS.7) a) the carbon, water, and nitrogen cycles;
 - b) interactions resulting in a flow of energy and matter throughout the system;
 - c) complex relationships within terrestrial, freshwater, and marine ecosystems;
 - d) energy flow in food webs and energy pyramids.
- S-LFS8 The student will investigate and understand that interactions exist among members of a population. Key concepts include
- (SOL LS.8) a) competition, cooperation, social hierarchy, territorial imperative;
 - b) influence of behavior on a population.
- S-LFS9 The student will investigate and understand interactions among populations in a biological community. Key concepts include
- (SOL LS.9) a) the relationships among producers, consumers, and decomposers in food webs;
 - b) the relationship between predators and prey;
 - c) competition and cooperation;
 - d) symbiotic relationships;
 - e) niches.
- S-LFS10 The student will investigate and understand how organisms adapt to biotic and abiotic factors in an ecosystem. Key concepts include
- (SOL LS.10) a) differences between ecosystems and biomes;
 - b) characteristics of land, marine, and freshwater ecosystems;
 - c) adaptations that enable organisms to survive within a specific ecosystem.
- S-LFS11 The student will investigate and understand that organisms reproduce and transmit genetic information to new generations. Key concepts include
- (SOL LS.13) a) the role of DNA:
 - b) the function of genes and chromosomes;
 - c) genotypes and phenotypes;
 - d) factors affecting the expression of traits;
 - e) characteristics that can and cannot be inherited;
 - f) genetic engineering and its applications;
 - g) historical contributions and significance of discoveries related to genetics.

Reporting Category: Life Processes and Living Systems

Earth Science

- S-ES1 The student will plan and conduct investigations in which
- (SOL ES.1) a) volume, area, mass, elapsed time, direction, temperature, pressure, distance, density, and changes in elevation/depth are calculated utilizing the most appropriate tools;
 - b) technologies including computers, probeware, and global positioning systems (GPS), are used to collect, analyze, and report data and to demonstrate concepts and simulate experimental conditions;
 - c) scales, diagrams, maps, charts, graphs, tables, and profiles are constructed and interpreted;
 - d) variables are manipulated with repeated trials;
 - e) a scientific viewpoint is constructed and defended (the nature of science).
- S-ES 2 The student will demonstrate scientific reasoning and logic by
- (SOL ES.2) a) analyzing how science explains and predicts the interactions and dynamics of complex Earth systems;
 - b) recognizing that evidence is required to evaluate hypotheses and explanations;
 - c) comparing different scientific explanations for a set of observations about the Earth;
 - d) explaining that observation and logic are essential for reaching a conclusion;
 - e) evaluating evidence for scientific theories.
- S-ES 3 The student will investigate and understand how to read and interpret maps, globes, models, charts, and imagery. Key concepts include
- (SOL ES.3) a) maps (bathymetric, geologic, topographic, and weather) and star charts;
 - b) imagery (aerial photography and satellite images);
 - c) direction and measurements of distance on any map or globe;
 - d) location by latitude and longitude and topographic profiles.
- S-ES 4 The student will investigate and understand the characteristics of the Earth and the solar system. Key concepts include
- (SOL ES.4) a) position of the Earth in the solar system;
 - b) sun-Earth-moon relationships (seasons, tides, and eclipses);
 - c) characteristics of the sun, planets and their moons, comets, meteors, and asteroids;
 - d) the history and contributions of the space program.
- S-ES 5 The student will investigate and understand how to identify major rock-forming and ore minerals based on physical and chemical properties. Key concepts include
- (SOL ES.5) a) hardness, color and streak, luster, cleavage, fracture, and unique properties; b) uses of minerals.

- S-ES 6 The student will investigate and understand the differences between renewable and nonrenewable resources. Key concepts include
- (SOL ES.7) a) fossil fuels, minerals, rocks, water, and vegetation;
 - b) advantages and disadvantages of various energy sources;
 - c) resources found in Virginia;
 - d) making informed judgments related to resource use and its effects on Earth systems;
 - e) environmental costs and benefits.
- S-ES 7 The student will investigate and understand that many aspects of the history and evolution of the Earth and life can be inferred by studying rocks and fossils. Key concepts include
- (SOL ES.10) a) traces and remains of ancient, often extinct, life are preserved by various means in many sedimentary rocks;
 - b) superposition, cross-cutting relationships, index fossils, and radioactive decay are methods of dating bodies of rock;
 - c) absolute and relative dating have different applications but can be used together to determine the age of rocks and structures;
 - d) rocks and fossils from many different geologic periods and epochs are found in Virginia.
- S-ES 8 The student will investigate and understand that oceans are complex, interactive physical, chemical, and biological systems and are subject to long- and short-term variations. Key concepts include
- (SOL ES.11) a) physical and chemical changes (tides, waves, currents, sea level and ice cap variations, upwelling, and salinity variations);
 - b) importance of environmental and geologic implications;
 - c) systems interactions (density differences, energy transfer, weather, and climate);
 - d) features of the sea floor (continental margins, trenches, mid-ocean ridges, and abyssal plains) as reflections of tectonic processes:
 - e) economic and public policy issues concerning the oceans and the coastal zone including the Chesapeake Bay.
- S-ES 9 The student will investigate and understand that energy transfer between the sun and the Earth and its atmosphere drives weather and climate on Earth. Key concepts include
- (SOL ES.13) a) observation and collection of weather data;
 - b) prediction of weather patterns;
 - c) severe weather occurrences, such as tornadoes, hurricanes, and major storms;
 - d) weather phenomena and the factors that affect climate including radiation and convection.

Reporting Category: Interrelationships in Earth/Space Systems and Cycles

Interrelationships in Earth/Space Systems

- S-IE 1 The student will investigate and understand that shadows occur when light is blocked by an object. Key concepts include
- (SOL K.7) a) shadows occur in nature when sunlight is blocked by an object;
 - b) shadows can be produced by blocking artificial light sources.
- S-IE 2 The student will investigate and understand the basic relationships between the sun and the Earth. Key concepts include
- (SOL 1.6) a) the sun is the source of heat and light that warms the land, air, and water;
 - b) night and day are caused by the rotation of the Earth.
- S-IE 3 The student will investigate and understand basic types, changes, and patterns of weather. Key concepts include
- (SOL 2.6) a) temperature, wind, precipitation, drought, flood, and storms;
 - b) the uses and importance of measuring and recording weather data.
- S-IE 4 The student will investigate and understand the major components of soil, its origin, and importance to plants and animals including humans. Key concepts include
- (SOL 3.7) a) soil provides the support and nutrients necessary for plant growth;
 - b) topsoil is a natural product of subsoil and bedrock;
 - c) rock, clay, silt, sand, and humus are components of soils;
 - d) soil is a natural resource and should be conserved.
- S-IE 5 The student will investigate and understand how weather conditions and phenomena occur and can be predicted. Key concepts include
- (SOL 4.6) a) weather measurements and meteorological tools (air pressure barometer, wind speed anemometer, rainfall rain gauge, and temperature thermometer);
 - b) weather phenomena (fronts, clouds, and storms).
- S-IE 6 The student will investigate and understand characteristics of the ocean environment. Key concepts include
- (SOL 5.6) a) geological characteristics (continental shelf, slope, rise);
 - b) physical characteristics (depth, salinity, major currents);
 - c) biological characteristics (ecosystems).

- S-IE 7 The student will investigate and understand the organization of the solar system and the relationships among the various bodies that comprise it. Key concepts include
- (SOL 6.8) a) the sun, moon, Earth, other planets and their moons, meteors, asteroids, and comets;
 - b) relative size of and distance between planets;
 - c) the role of gravity;
 - d) revolution and rotation;
 - e) the mechanics of day and night and the phases of the moon;
 - f) the unique properties of Earth as a planet;
 - g) the relationship of the Earth's tilt and the seasons;
 - h) the cause of tides;
 - i) the history and technology of space exploration.

Reporting Category: Interrelationships in Earth/Space Systems and Cycles

Earth Patterns, Cycles, and Change

- S-EP 1 The student will investigate and understand simple patterns in his/her daily life. Key concepts include
- (SOL K.8) a) weather observations;
 - b) the shapes and forms of many common natural objects including seeds, cones, and leaves;
 - c) animal and plant growth;
 - d) home and school routines.
- S-EP 2 The student will investigate and understand that change occurs over time and rates may be fast or slow. Key concepts include
- (SOL K.9) a) natural and human-made things may change over time;
 - b) changes can be noted and measured.
- S-EP 3 The student will investigate and understand the relationship of seasonal change and weather to the activities and life processes of plants and animals. Key concepts include how temperature, light, and precipitation bring about changes in
- (SOL 1.7) a) plants (growth, budding, falling leaves, and wilting);
 - b) animals (behaviors, hibernation, migration, body covering, and habitat);
 - c) people (dress, recreation, and work).
- S-EP 4 The student will investigate and understand that weather and seasonal changes affect plants, animals, and their surroundings. Key concepts include
- (SOL 2.7) a) effects on growth and behavior of living things (migration, hibernation, camouflage, adaptation, dormancy);
 - b) weathering and erosion of the land surface.

- S-EP 5 The student will investigate and understand basic patterns and cycles occurring in nature. Key concepts include
- (SOL 3.8) a) patterns of natural events (day and night, seasonal changes, phases of the moon, and tides);
 - b) animal and plant life cycles.
- S-EP 6 The student will investigate and understand the water cycle and its relationship to life on Earth. Key concepts include
- (SOL 3.9) a) the energy from the sun drives the water cycle;
 - b) processes involved in the water cycle (evaporation, condensation, precipitation);
 - c) water is essential for living things;
 - d) water supply and water conservation.
- S-EP 7 The student will investigate and understand the relationships among the Earth, moon, and sun. Key concepts include
- (SOL 4.7) a) the motions of the Earth, moon, and sun (revolution and rotation);
 - b) the causes for the Earth's seasons and phases of the moon;
 - c) the relative size, position, age, and makeup of the Earth, moon, and sun;
 - d) historical contributions in understanding the Earth-moon-sun system.
- S-EP 8 The student will investigate and understand how the Earth's surface is constantly changing. Key concepts include
- (SOL 5.7) a) the rock cycle including identification of rock types;
 - b) Earth history and fossil evidence;
 - c) the basic structure of the Earth's interior;
 - d) plate tectonics (earthquakes and volcanoes);
 - e) weathering and erosion;
 - f) human impact.

Teachers may use the *History/Social Science ASOL Summary Matrix* during the initial development of the student's instructional and assessment plan, to track the learning progression of the student throughout the year, and for planning units and lessons.

History/Social Science ASOL Summary Matrix							
	east Comple						ost Complex
Reporting Category	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 11
History	HS-H1 HS-H2 HS-H3 HS-H4 HS-H5	HS-H6 HS-H7 HS-H8	HS-H9 HS-H10 HS-H11	HS-H12 HS-H13 HS-H14 HS-H15 HS-H16 HS-H17	HS-H18 HS-H19 HS-H20 HS-H21 HS-H21 HS-H23 HS-H24	HS-H25 HS-H26 HS-H27 HS-H28 HS-H29	HS-H30 HS-H31 HS-H32 HS-H33 HS-H34 HS-H35 HS-H36
Geography	HS-G1 HS-G2 HS-G3	HS-G4 HS-G5 HS-G6	HS-G7 HS-G8 HS-G9	HS-G10 HS-G11	HS-G12	HS-G13 HS-G14 HS-G15 HS-G16	HS-G17 HS-G18 HS-G19 HS-G20
Civics	HS-C1 HS-C2 HS-C3 HS-C4 HS-C5	HS-C6 HS-C7 HS-C8	HS-C9 HS-C10 HS-C11	HS-C12 HS-C13 HS-C14 HS-C15 HS-C16 HS-C17	HS-C18	HS-C19	HS-C20
Economics	HS-E1 HS-E2 HS-E3 HS-E4 HS-E5	HS-E6 HS-E7 HS-E8	HS-E9 HS-E10 HS-E11	HS-E12 HS-E13 HS-E14 HS-E15	HS-E16 HS-E17 HS-E18	HS-E19 HS-E20 HS-E21	HS-E22 HS-E23 HS-E24 HS-E25 HS-E26 HS-E27 HS-E28 HS-E29 HS-E30 HS-E31

Reporting Category: History

- HS-H1 The student will recognize that history describes events and people of other times and places by
- (SOL K.1) a) identifying examples of past events in legends, stories, and historical accounts of Pocahontas, George Washington, Betsy Ross, and Abraham Lincoln;
 - b) identifying the people and events honored by the holidays of Thanksgiving Day, Martin Luther King, Jr. Day, Presidents' Day, and Independence Day (Fourth of July).
- HS-H2 The student will describe everyday life in the present and in the past and begin to (SOL K.2) recognize that things change over time.
- HS-H3 The student will interpret information presented in picture time lines to show sequence (SOL 1.1) of events and will distinguish between past and present.
- HS-H4 The student will describe the stories of American leaders and their contributions to our country, with emphasis on George Washington, Benjamin Franklin, Abraham Lincoln, and George Washington Carver.
- HS-H5 The student will discuss the lives of people associated with Presidents' Day, Columbus (SOL 1.3) Day, and the events of Independence Day (Fourth of July).
- HS-H6 The student will explain how the contributions of ancient China and Egypt have influenced the present world in terms of architecture, inventions, the calendar, and written language.
- HS-H7 The student will compare the lives and contributions of American Indians (First (SOL 2.2) Americans), with emphasis on the Powhatan of the Eastern Woodlands, the Sioux of the Plains, and the Pueblo people of the Southwest.
- HS-H8 The student will identify and compare changes in community life over time, in terms of (SOL 2.3) buildings, jobs, transportation, and population.
- HS-H9 The student will explain how the contributions of ancient Greece and Rome have (SOL 3.1) influenced the present world in terms of architecture, government (direct and representative democracy), and sports.
- HS-H10 The student will study the early West African empire of Mali by describing its oral (SOL 3.2) tradition (storytelling), government (kings), and economic development (trade).
- HS-H11 The student will study the exploration of the Americas by
- (SOL 3.3) a) describing the accomplishments of Christopher Columbus, Juan Ponce de Léon, Jacques Cartier, and Christopher Newport;
 - b) identifying reasons for exploring, the information gained, and the results from the travels.

HS-H12	The student will demonstrate knowledge of the first permanent English settlement in America by explaining the reasons for English colonization.
(SOL VS.3)	e) identifying the importance of the arrival of Africans and women to the Jamestown settlement;
	f) describing the hardships faced by settlers at Jamestown and the changes that took place to ensure survival;
	g) describing the interactions between the English settlers and the Powhatan people, including the contributions of the Powhatans to the survival of the settlers.
HS-H13	The student will demonstrate knowledge of life in the Virginia colony by
(SOL VS.4)	b) describing how European (English, Scotch-Irish, German) immigrants, Africans, and American Indians (First Americans) influenced the cultural landscape and changed the relationship between the Virginia colony and England.
HS-H14	The student will demonstrate knowledge of the role of Virginia in the American Revolution by
(SOL VS.5)	b) identifying the various roles played by Virginians in the Revolutionary War era, with emphasis on George Washington, Thomas Jefferson, and Patrick Henry;c) identifying the importance of the American victory at Yorktown.
HS-H15	The student will demonstrate knowledge of the role of Virginia in the establishment of the new American nation by
(SOL VS.6)	b) identifying the ideas of George Mason and Thomas Jefferson as expressed in the Virginia Declaration of Rights and the Virginia Statute for Religious Freedom.
HS-H16	The student will demonstrate knowledge of the issues that divided our nation and led to the Civil War by
(SOL VS.7)	a) identifying the events and differences between northern and southern states that divided Virginians and led to secession, war, and the creation of West Virginia;b) describing Virginia's role in the war, including identifying major battles that took place in Virginia.
HS-H17	The student will demonstrate knowledge of twentieth century Virginia by
(SOL VS.9)	c) identifying the political, social, and/or economic contributions made by Maggie L. Walker, Harry F. Byrd, Sr., Arthur R. Ashe, Jr., and L. Douglas Wilder.
HS-H18	The student will demonstrate knowledge of European exploration in North America and West Africa by
(SOL USI.4)	b) describing cultural interactions between Europeans and American Indians (First Americans) that led to cooperation and conflict.

HS-H19	The student will demonstrate knowledge of the factors that shaped colonial America by
(SOL USI.5)	 a) describing the religious and economic events and conditions that led to the colonization of America; c) describing colonial life in America from the perspectives of large landowners, farmers, artisans, women, indentured servants, and slaves; d) identifying the political and economic relationships between the colonies and England.
HS-H20	The student will demonstrate knowledge of the causes and results of the American Revolution by
(SOL USI.6)	 a) identifying the issues of dissatisfaction that led to the American Revolution; c) describing key events and the roles of key individuals in the American Revolution, with emphasis on George Washington, Benjamin Franklin, Thomas Jefferson, Patrick Henry, and Thomas Paine; d) explaining reasons why the colonies were able to defeat Britain.
HS-H21	The student will demonstrate knowledge of the challenges faced by the new nation by
(SOL USI.7)	d) describing the major accomplishments of the first five presidents of the United States.
HS-H22	The student will demonstrate knowledge of westward expansion and reform in America from 1801 to 1861 by
(SOL USI.8)	a) describing territorial expansion and how it affected the political map of the United States, with emphasis on the Louisiana Purchase, the Lewis and Clark expedition, and the acquisitions of Florida, Texas, Oregon, and California;d) identifying the main ideas of the abolitionist and suffrage movements.
HS-H23	The student will demonstrate knowledge of the causes, major events, and effects of the Civil War by
(SOL USI.9)	 b) explaining how the issues of states' rights and slavery increased sectional tensions; d) describing the roles of Abraham Lincoln, Jefferson Davis, Ulysses S. Grant, Robert E. Lee, Thomas "Stonewall" Jackson, and Frederick Douglass in events leading to and during the war; f) describing the effects of war from the perspectives of Union and Confederate soldiers (including black soldiers), women, and slaves.
HS-H24	The student will demonstrate knowledge of the effects of Reconstruction on American life by
(SOL USI.10)	b) describing the impact of Reconstruction policies on the South.
HS-H25	The student will demonstrate knowledge of how life changed after the Civil War by
(SOL USII.3)	a) identifying the reasons for westward expansion;b) explaining the reasons for the increase in immigration, growth of cities, new inventions, and challenges arising from this expansion;c) describing racial segregation, the rise of "Jim Crow," and other constraints faced by African Americans in the post-Reconstruction South.

- HS-H26 The student will demonstrate knowledge of the changing role of the United States from the late nineteenth century through World War I by
- (SOL USII.4) a) explaining the reasons for and results of the Spanish American War;
 - b) explaining the reasons for the United States' involvement in World War I and its leadership role at the conclusion of the war.
- HS-H27 The student will demonstrate knowledge of the social, economic, and technological changes of the early twentieth century by
- (SOL USIL5) b) describing the social changes that took place, including Prohibition, and the Great Migration north;
 - c) examining art, literature, and music from the 1920s and 1930s, emphasizing Langston Hughes, Duke Ellington, and Georgia O'Keeffe and including the Harlem Renaissance.
- HS-H28 The student will demonstrate knowledge of the major causes and effects of American involvement in World War II by
- (SOL USII.6) c) describing the impact of World War II on the home front.
- HS-H29 The student will demonstrate knowledge of the key domestic issues during the second half of the twentieth century by
- (SOL USII.8) b) describing the development of new technologies and their impact on American life.
- HS-H30 The student will demonstrate knowledge of early development of humankind from the Paleolithic Era to the agricultural revolution by
- (SOL WHI.2) b) listing characteristics of hunter-gatherer societies, including their use of tools and fire;
 - c) describing technological and social advancements that gave rise to stable communities
- HS-H31 The student will demonstrate knowledge of ancient river valley civilizations, including Egypt, Mesopotamia, the Indus River Valley, and China and the civilizations of the Hebrews, Phoenicians, and Kush, by
- (SOL WHI.3) c) explaining the development of religious traditions;
 - d) describing the origins, beliefs, traditions, customs, and spread of Judaism;
 - e) explaining the development of language and writing.
- HS-H32 The student will demonstrate an understanding of the political, cultural, and economic conditions in the world about 1500 A.D. by
- (SOL WHIL2) b) describing artistic, literary, and intellectual ideas of the Renaissance;
 - e) citing major technological and scientific exchanges in the Eastern Hemisphere.

- HS-H33 The student will demonstrate knowledge of the impact of the European Age of Discovery and expansion into the Americas, Africa, and Asia by
- (SOL WHIL4) a) explaining the roles of explorers and conquistadors; b) describing the influence of religion.
- HS-H34 The student will demonstrate knowledge of scientific, political, economic, and religious changes during the sixteenth, seventeenth, and eighteenth centuries by
- (SOL WHIL6) a) describing the Scientific Revolution and its effects; g) describing the expansion of the arts, philosophy, literature, and new technology.
- HS-H35 The student will demonstrate knowledge of the worldwide impact of World War II by (SOL WHILLI) b) examining the Holocaust and other examples of genocide in the twentieth century.
- HS-H36 The student will demonstrate knowledge of the influence of Judaism, Christianity, Islam, Buddhism, and Hinduism in the contemporary world by (SOL WHII.14) a) describing their beliefs, sacred writings, traditions, and customs.

Reporting Category: Geography

- HS-G1 The student will describe the relative location of people, places, and things by using positional words, with emphasis on near/far, above/below, left/right, and behind/in (SOL K.3) front.
- HS-G2 The student will use simple maps and globes to
- (SOL K.4) a) develop an awareness that a map is a drawing of a place to show where things are located and that a globe is a round model of the Earth;
 - b) describe places referenced in stories and real-life situations:
 - c) locate land and water features.
- HS-G3 The student will develop an awareness that maps and globes
- (SOL K.5) a) show a view from above;
 - b) show things in smaller size;
 - c) show the position of objects.
- HS-G4 The student will develop map skills by
- (SOL 1.4) a) recognizing basic map symbols, including references to land, water, cities, and roads:
 - b) using cardinal directions on maps:
 - c) identifying the physical shape of the United States and Virginia on maps and globes;
 - d) locating Washington, D.C., the capital of the United States, and Richmond, the capital of Virginia, on a United States map.

- HS-G5 The student will construct a simple map of a familiar area, using basic map symbols in (SOL 1.5) the map legend.
- HS-G6 The student will describe how location, climate, and physical surroundings affect the way people live, including their food, clothing, shelter, transportation, and recreation.
- HS-G7 The student will develop map skills by
- (SOL 2.4) a) locating China and Egypt on world maps;
 - b) locating the regions of the Powhatan, Sioux, and Pueblo Indians on United States maps;
 - c) comparing the climate, land, and plant life of these regions;
 - d) describing how people in these regions adapt to their environment.
- HS-G8 The student will develop map skills by
- (SOL 2.5) a) locating the equator, the seven continents, and the four oceans on maps and globes;
 - b) locating selected rivers (James River, Mississippi River, Rio Grande), mountain ranges (Appalachian Mountains and Rocky Mountains), and lakes (Great Lakes) in the United States.
- HS-G9 The student will demonstrate map skills by constructing simple maps, using title, map (SOL 2.6) legend, and compass rose.
- HS-G10 The student will develop map skills by
- (SOL 3.5) a) positioning and labeling the seven continents and four oceans to create a world map;
 - b) using the equator and prime meridian to identify the four hemispheres;
 - c) locating the countries of Spain, England, and France:
 - d) locating the regions in the Americas explored by Christopher Columbus (San Salvador in the Bahamas), Juan Ponce de Léon (near St. Augustine, Florida), Jacques Cartier (near Quebec, Canada), and Christopher Newport (Jamestown, Virginia);
 - e) locating specific places on a simple letter-number grid system.
- HS-G11 The student will interpret geographic information from maps, tables, graphs, and charts. (SOL 3.6)
- HS-G12 The student will demonstrate knowledge of the geography and early inhabitants of Virginia by
- (SOL VS.2) a) locating Virginia and its bordering states on maps of the United States;
 - b) locating and describing Virginia's Coastal Plain (Tidewater), Piedmont, Blue Ridge Mountains, Valley and Ridge, and Appalachian Plateau;
 - c) locating and identifying water features important to the early history of Virginia (Atlantic Ocean, Chesapeake Bay, James River, York River, Potomac River, and Rappahannock River;
 - e) describing how American Indians (First Americans) adapted to the climate and their environment to secure food, clothing, and shelter.

- HS-G13 The student will use maps, globes, photographs, pictures, and tables to
- (SOL US1.2) a) locate the seven continents;
 - c) locate and identify the water features important to the early history of the United States: Great Lakes, Mississippi River, Missouri River, Ohio River, Columbia River, Colorado River, Rio Grande, Atlantic Ocean, Pacific Ocean, and Gulf of Mexico.
- HS-G14 The student will demonstrate knowledge of how early cultures developed in North America by
- (SOL USI.3) a) locating where the American Indians (First Americans) settled, with emphasis on Arctic (Inuit), Northwest (Kwakiutl), Plains (Sioux), Southwest (Pueblo), and Eastern Woodland (Iroquois);
 - b) describing how the American Indians (First Americans) used their environment to obtain food, clothing, and shelter.
- HS-G15 The student will demonstrate knowledge of the causes, major events, and effects of the Civil War by
- (SOL USL9) c) identifying on a map the states that seceded from the Union and those that remained in the Union.
- HS-G16 The student will use maps, globes, photographs, pictures, and tables for
- (SOL USIL2) **c)** locating the 50 states and the cities most significant to the historical development of the United States.
- HS-G17 The student will use maps, globes, photographs, and pictures in order to
- (SOL WG.1) a) obtain geographical information and apply the concepts of location, scale, and orientation;
 - b) develop and refine his or her mental maps of world regions.
- HS-G18 The student will analyze how selected physical and ecological processes shape the Earth's surface by
- (SOL WG.2) b) describing how humans influence the environment and are influenced by it;
 - c) explaining how technology affects one's ability to modify the environment and adapt to it
- HS-G19 The student will apply geography to interpret the past, understand the present, and plan for the future by
- (SOL WG.12) b) relating current events to the physical and human characteristics of places and regions.
- HS-G20 The student will demonstrate knowledge of the influence of Judaism, Christianity, Islam, Buddhism, and Hinduism in the contemporary world by
- (SOL WHII.14) b) locating the geographic distribution of religions in the contemporary world.

Reporting Category: Civics

- HS-C1 The student will demonstrate that being a good citizen involves
- (SOL K.8) a) taking turns and sharing;
 - b) taking responsibility for certain classroom chores;
 - c) taking care of personal belongings and respecting what belongs to others;
 - d) following rules and understanding the consequence of breaking rules;
 - e) practicing honesty, self-control, and kindness to others.
- HS-C2 The student will recognize the American flag, the Pledge of Allegiance, and that the
- (SOL K.9) President is the leader of the United States.
- HS-C3 The student will apply the traits of a good citizen by
- (SOL 1.10) a) focusing on fair play, exhibiting good sportsmanship, helping others, and treating others with respect;
 - b) recognizing the purpose of rules and practicing self-control;
 - c) working hard in school;
 - d) taking responsibility for one's own actions;
 - e) valuing honesty and truthfulness in oneself and others.
- HS-C4 The student will recognize the symbols and traditional practices that honor and foster patriotism in the United States by
- (SOL 1.11) a) identifying the American flag, bald eagle, Washington Monument, and Statue of Liberty;
 - b) demonstrating respect for the American flag by learning the Pledge of Allegiance.
- HS-C5 The student will recognize that communities in Virginia include people who have
- (SOL 1.12) diverse ethnic origins, customs, and traditions, who make contributions to their communities, and who are united as Americans by common principles.
- HS-C6 The student will explain the responsibilities of a good citizen, with emphasis on
- (SOL 2.10) a) respecting and protecting the rights and property of others;
 - b) taking part in the voting process when making classroom decisions;
 - c) describing actions that can improve the school and community;
 - d) demonstrating self-discipline and self-reliance;
 - e) practicing honesty and trustworthiness.
- HS-C7 The student will identify George Washington, Abraham Lincoln, Susan B. Anthony,
- (SOL 2.11) Helen Keller, Jackie Robinson, and Martin Luther King, Jr. as Americans whose contributions improved the lives of other Americans.
- HS-C8 The student will understand that the United States is a land of people who have diverse
- (SOL 2.12) ethnic origins, customs, and traditions, who make contributions to their communities, and who are united as Americans by common principles.

- HS-C9 The student will recognize why government is necessary in the classroom, school, and community by
- (SOL 3.10) a) explaining the purpose of rules and laws;
 - b) explaining that the basic purposes of government are to make laws, carry out laws, and decide if laws have been broken;
 - c) explaining that government protects the rights and property of individuals.
- HS-C10 The student will explain the importance of the basic principles that form the foundation of a republican form of government by
- (SOL 3.11) a) describing the individual rights to life, liberty, and the pursuit of happiness; and equality under the law;
 - b) identifying the contributions of George Washington, Thomas Jefferson, Abraham Lincoln, Rosa Parks, Thurgood Marshall, and Martin Luther King, Jr.;
 - c) recognizing that Veterans Day and Memorial Day honor people who have served to protect the country's freedoms.
- HS-C11 The student will recognize that Americans are a people of diverse ethnic origins,
- (SOL 3.12) customs, and traditions, who are united by the basic principles of a republican form of government and respect for individual rights and freedoms.
- HS-C12 The student will demonstrate knowledge of the first permanent English settlement in America by
- (SOL VS.3) c) identifying the importance of the charters of the Virginia Company of London in establishing the Jamestown settlement;
 - d) identifying the importance of the Virginia Assembly (1619) as the first representative legislative body in English America.
- HS-C13 The student will demonstrate knowledge of the role of Virginia in the American Revolution by
- (SOL VS.5) a) identifying the reasons why the colonies went to war with England as expressed in the Declaration of Independence.
- HS-C14 The student will demonstrate knowledge of the role of Virginia in the establishment of the new American nation by
- (SOL VS.6) b) identifying the ideas of George Mason and Thomas Jefferson as expressed in the Virginia Declaration of Rights and the Virginia Statute for Religious Freedom.
- HS-C15 The student will demonstrate knowledge of the reconstruction of Virginia following the Civil War by
- (SOL VS.8) b) identifying the effects of segregation and "Jim Crow" on life in Virginia.
- HS-C16 The student will demonstrate knowledge of twentieth century Virginia by
- (SOL VS.9) b) identifying the social and political events in Virginia linked to desegregation and Massive Resistance and their relationship to national history.

- HS-C17 The student will demonstrate knowledge of government, geography, and economics by
- (SOL VS.10) a) identifying the three branches of Virginia government and the function of each.
- HS-C18 The student will demonstrate knowledge of the causes and results of the American Revolution by
- (SOL USI.6) b) identifying how political ideas shaped the revolutionary movement in America and led to the Declaration of Independence, with emphasis on the ideas of John Locke.
- HS-C19 The student will demonstrate knowledge of the challenges faced by the new nation by
- (SOL USI.7) b) identifying the basic principles of the new government established by the Constitution of the United States of America and the Bill of Rights;
 - c) identifying the conflicts that resulted in the emergence of two political parties.
- HS-C20 The student will demonstrate knowledge of the key domestic issues during the second half of the twentieth century by
- (SOL USIL8) a) examining the Civil Rights Movement and the changing role of women.

Reporting Category: Economics

- HS-E1 The student will match simple descriptions of work that people do with the names of (SOL K.6) those jobs.
- HS-E2 The student will
- (SOL K.7) a) identify the difference between basic needs (food, clothing, and shelter), and wants (things people would like to have);
 - b) recognize that people use money to purchase goods.
- HS-E3 The student will explain the difference between goods and services and will describe
- (SOL 1.7) how people are both buyers and sellers of goods and services.
- HS-E4 The student will explain that people make choices because they cannot have everything
- (SOL 1.8) they want.
- HS-E5 The student will recognize that people save money for the future to purchase goods and
- (SOL 1.9) services.
- HS-E6 The student will describe the differences between natural resources (water, soil, wood,
- (SOL 2.7) and coal), human resources (people at work), and capital resources (machines, tools, and buildings).
- HS-E7 The student will distinguish between the use of barter and money in the exchange for
- (SOL 2.8) goods and services.

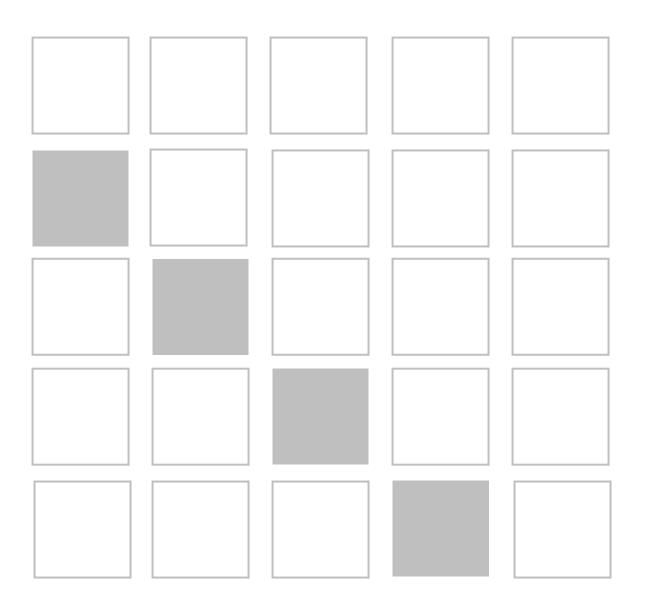
- HS-E8 The student will explain that scarcity (limited resources) requires people to make
- (SOL 2.9) choices about producing and consuming goods and services.
- HS-E9 The student will explain how producers use natural resources (water, soil, wood, and
- (SOL 3.7) coal), human resources (people at work), and capital resources (machines, tools, and buildings), to produce goods and services for consumers.
- HS-E10 The student will recognize the concepts of specialization (being an expert in one job,
- (SOL 3.8) product, or service) and interdependence (depending on others) in the production of goods and services (in ancient Greece, Rome, the West African empire of Mali, and in the present).
- HS-E11 The student will identify examples of making an economic choice and will explain the
- (SOL 3.9) idea of opportunity cost (what is given up when making a choice).
- HS-E12 The student will demonstrate knowledge of life in the Virginia colony by
- (SOL VS.4) a) explaining the importance of agriculture and its influence on the institution of slavery; d) describing how money, barter, and credit were used.
- HS-E13 The student will demonstrate knowledge of the reconstruction of Virginia following the Civil War by
- (SOL VS.8) a) identifying the effects of Reconstruction on life in Virginia;
 - c) describing the importance of railroads, new industries, and the growth of cities to Virginia's economic development.
- HS-E14 The student will demonstrate knowledge of twentieth century Virginia by
- (SOL VS.9) a) describing the economic and social transition from a rural, agricultural society to a more urban, industrialized society, including the reasons people came to Virginia from other states and countries.
- HS-E15 The student will demonstrate knowledge of government, geography, and economics by
- (SOL VS.10) b) describing the major products and industries of Virginia's five geographic regions.
 - c) explaining how advances in transportation, communications, and technology have contributed to Virginia's prosperity and role in the global economy.
- HS-E16 The student will demonstrate knowledge of European exploration in North America and West Africa by
- (SOL USI.4) c) identifying the location and describing the characteristics of West African societies (Ghana, Mali, and Songhai), and their interactions with traders.

- HS-E17 The student will demonstrate knowledge of westward expansion and reform in America from 1801 to 1861 by
- (SOL USL8) b) identifying the geographic and economic factors that influenced the westward movement of settlers;
 - c) describing the impact of inventions, including the cotton gin, the reaper, the steamboat, and the steam locomotive, on life in America.
- HS-E18 The student will demonstrate knowledge of the effects of Reconstruction on American life by
- (SOL USL10) a) identifying the provisions of the 13th, 14th, and 15th Amendments to the Constitution of the United States and their impact on the expansion of freedom in America.
- HS-E19 The student will demonstrate knowledge of how life changed after the Civil War by
- (SOL USIL3) d) explaining the rise of big business, the growth of industry, and life on American farms
- HS-E20 The student will demonstrate knowledge of the social, economic, and technological changes of the early twentieth century by
- (SOL USIL5) a) explaining how developments in transportation (including the use of the automobile), communication, and electrification changed American life;
 - d) identifying the causes of the Great Depression, its impact on Americans, and the major features of Franklin D. Roosevelt's New Deal.
- HS-E21 The student will demonstrate knowledge of the economic, social, and political transformation of the United States and the world between the end of World War II and the present by
- (SOL USII.7) b) describing the conversion from a wartime to a peacetime economy.
- HS-E22 The student will identify natural, human, and capital resources and explain their significance by
- (SOL WG.7) a) showing patterns of economic activity and land use.
- HS-E23 The student will distinguish between developed and developing countries and relate the (SOL WG.8) level of economic development to the standard of living and quality of life.

- HS-E24 The student will demonstrate knowledge of ancient Greece in terms of its impact on Western civilization by
- (SOL WHL5) c) identifying the social structure and role of slavery, explaining the significance of citizenship and the development of democracy, and comparing the city-states of Athens and Sparta.
- HS-E25 The student will demonstrate knowledge of ancient Rome from about 700 B.C. to 500 A.D. in terms of its impact on Western civilization by
- (SOL WHL6) c) explaining the social structure and role of slavery, significance of citizenship, and the development of democratic features in the government of the Roman Republic.
- HS-E26 The student will demonstrate knowledge of civilizations and empires of the Eastern Hemisphere and their interactions through regional trade patterns by
- (SOL WHI.10) b) identifying technological advances and transfers, networks of economic interdependence, and cultural interactions.
- HS-E27 The student will demonstrate knowledge of the impact of the European Age of Discovery and expansion into the Americas, Africa, and Asia by
- (SOL WHII.4) f) describing the impact of precious metal exports from the Americas.
- HS-E28 The student will demonstrate knowledge of the status and impact of global trade on regional civilizations of the world after 1500 A.D. by
- (SOL WHIL5) d) describing Africa and its increasing involvement in global trade.
- HS-E29 The student will demonstrate knowledge of the effects of the Industrial Revolution during the nineteenth century by
- (SOL WHIL8) c) describing the evolution of the nature of work and the labor force, including its effects on families, the status of women and children, the slave trade, and the labor union movement.
- HS-E30 The student will demonstrate knowledge of cultural, economic, and social conditions in developed and developing nations of the contemporary world by
- (SOL WHII.15) b) assessing the impact of economic development and global population growth on the environment and society, including an understanding of the links between economic and political freedom.
- HS-E31 The student will demonstrate knowledge of how the nation grew and changed from the end of Reconstruction through the early twentieth century by
- (SOL VUS.8) b) describing the transformation of the American economy from a primarily agrarian to a modern industrial economy and identifying major inventions that improved life in the United States.

APPENDIX

2008 - 2009 Collection of Evidence Scoring Worksheet



APPENDIX C

Virginia Alternate Assessment Program

2008-2009 Collection of Evidence Scoring Worksheet

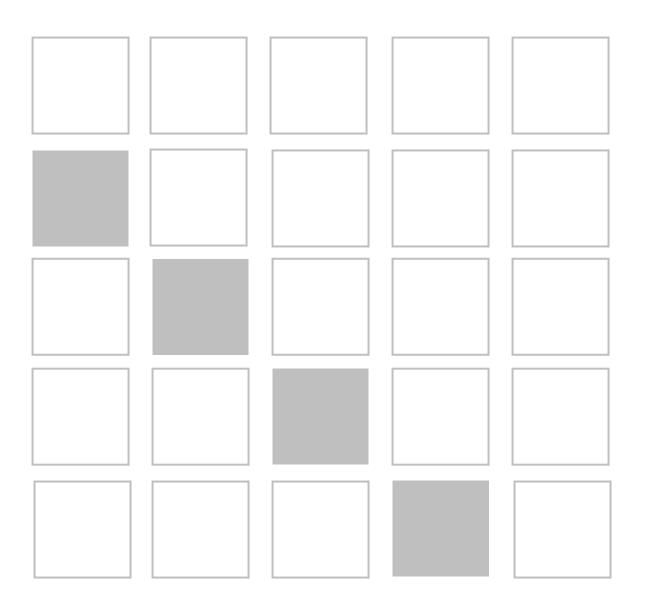
Division	School	State Testing Identifier (STI)	Student Last Name	Student First Name	Student MI	Grade	DOB

Content Area	Testing Status (If applicable)	Reporting Category	Selected ASOL (Include the bullet, if applicable, e. g., E-RW 1d)	Student Performance Score (0-4)
		ASOL 1 (E-RW)		
Reading		ASOL 2		
		(E-RC)		
		ASOL 1		
		(M-NS)		
		ASOL 2		
		(M-CE)		
Mathematics		ASOL 3		
		(M-M, M-G)		
		ASOL 4 (M-PS)		
		(IVI-P3)		
		ASOL 5		
		(M-PFA)		
		(111171)		
		ASOL 1		
		(S-SI, S-R)		
		ASOL 2		
Science		(S-FME, S-M)		
		ASOL 3		
		(S-LP, S-LS, S-LFS,		
		S-ES)		
		ASOL 4		
		(S-IE, S-EP) ASOL 1		
		(HS-H)		
		ASOL 2		
History and Social		(HS-G)		
Science		ASOL 3		
Cololido		(HS-C)		
		ASOL 4		
		(HS-E)		

APPENDIX

D

2008 - 2009 Content Area Cover Sheet



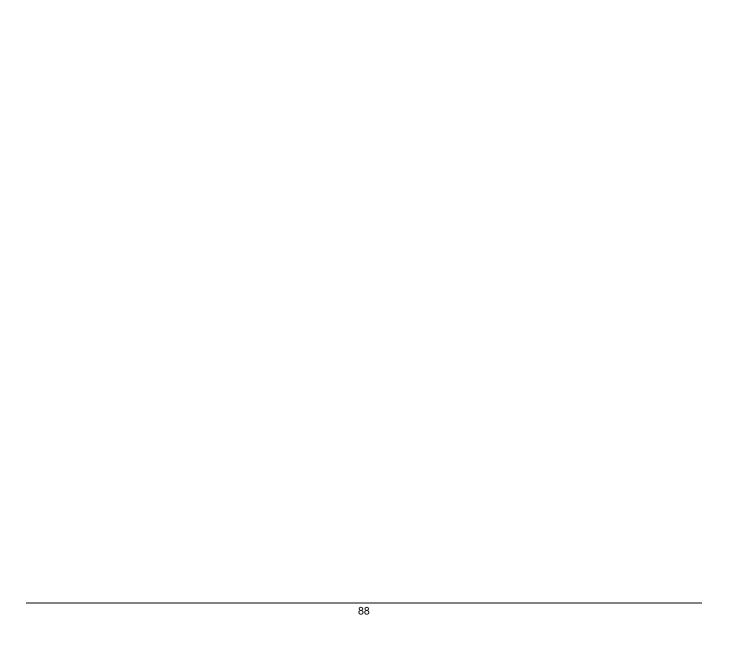
APPENDIX D Virginia Alternate Assessment Program

2008-2009 Content Area Cover Sheet

Student Name:	
State Testing Identifier (STI):	Grade:
School Name:	School Number:
School Division Name:	Division Number:
Content Area:	
Reporting Categories	Aligned Standard of Learning (ASOL) and Bullet, if applicable
	I

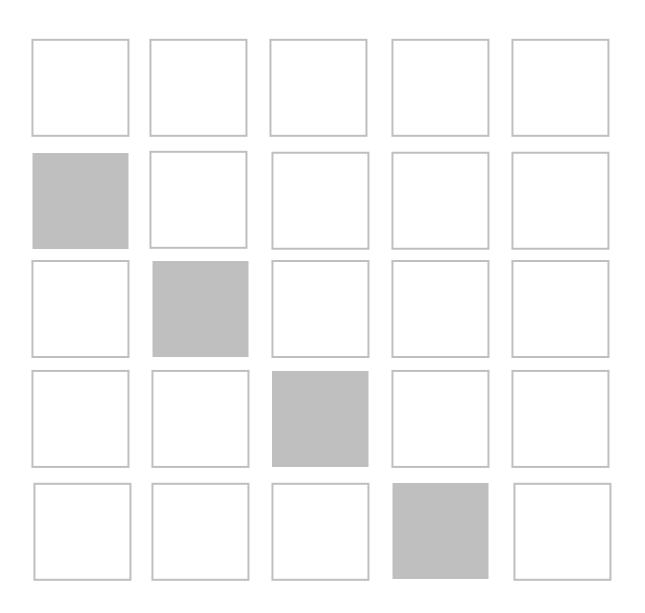
Accommodation:

87



APPENDIX

2008 - 2009 Affidavit of Student Performance



APPENDIX E

Virginia Alternate Assessment Program

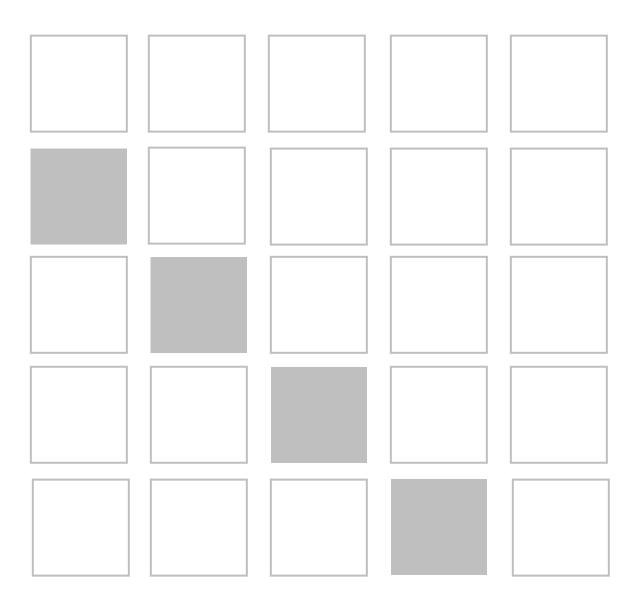
2008- 2009 Affidavit of Student Performance

Student Information	
Student Name:	Date of Birth:
State Testing Identifier (STI):	
School Name:	School Number:
School Division:	Division Number:
Content Area(s):	
I, the undersigned, do attest that all work contained knowledge, by the student using allowed accommod paraprofessional. In compiling this evidence with the I have:	the student in the presence of a teacher or other authorized school
 I have not: fabricated, altered, or modified student wor described behaviors that provide a negative provided any accommodations/assistive detection the student's daily instruction. 	
Signed:	Date:
General Education Teacher	
	Date:
Course Content Teacher	
	Date:
Special Education Teacher	
	Date:
Special Education Teacher	
	Date:
Other	Bate
	D .
Other	Date:
I have reviewed the contents of this Collection	of Evidence.
	Date:
Building Administrator or Designee	

APPENDIX

K

2008 - 2009 VAAP Checklists for Collection of Evidence



APPENDIX F

Virginia Alternate Assessment Program

2008-2009 Teacher Checklist for Collection of Evidence

Teacher Na	ame: Student Name: Due Date for VAAP COE:	_	
1. Require	ed Evidence: <u>One</u> ASOL per reporting category and <u>one</u> bullet when be	ullets are present	
Reading	Reporting Category	ASOL Defended	
	1 Use word analysis strategies and information resources		
	2 Demonstrate comprehension of printed materials		
Mathemat		ASOL Defended	
	1 Number and Number Sense		
	2 Computation and Estimation		
	3 Measurement and Geometry		
	4 Probability and Statistics		
	5 Patterns, Functions, and Algebra		
Science		ASOL Defended	
	1 Scientific Investigation and Resources	ASOL Detended	
	2 Forces, Motion, Energy, and Matter		
	3 Life Processes and Living Systems, Life Science, Earth Science		
	4 Interrelationships to Earth/Space Systems and Earth Patterns, Cycles and Changes		
History ar	nd Social Science	ASOL Defended	
	1 History		
	2 Geography		
	3 Civics		
	4 Economics		
2 WAAD (Contont Auga Covon Shoot		
	Content Area Cover Sheet VAAP cover sheet has been included for each content area within the s	tudent's COF	
	772 COVET SHEET HAS DEEN INCIDENCE FOR COMEIN AFEA WITHIN THE S	duciit 5 COL.	
3. Affidav	it of Student Performance		
	Signed Affidavit included		
	Each staff person involved in generating evidence has signed the affidavit (Paraprofessional, OT, PT, SP, etc.). Building Principal has also signed.		
4. Student	Evidence Identification (SEI) Tag		
	SEI Tags have been placed on every piece of evidence to be scored.		
	Each SEI Tag has been checked to make sure it is identified with the coas appropriate.	rrect ASOL and bullet,	

2008-2009 Teacher Checklist for Collection of Evidence

Division Required Forms I have included all division required forms in the collection.	Teacher Name:		Student Name:		
I have included all division required forms in the collection.	Division Due Date for VAAP COE:				
I have included all division required forms in the collection.					
I have included all division required forms in the collection.					
6. Evidence Student's skill and proficiency is clear in the evidence. Evidence does not document developmental progress. Evidence to be submitted represents the student's best work. Evidence to be submitted represents the student's best work. Evidence to be submitted addresses all the skills listed within the ASOL. stem and bullet, as appropriate. ASOL curriculum framework documents have been checked to determine the essential skills and knowledge required by the selected standard. See http://www.ttaconline.org Evidence to be submitted identifies any accommodations, supports and assistive technology devices that are a regular part of the student's daily instruction. Evidence submitted presents a positive image of the student. All student work has been graded (%, grade, amount correct, etc.) or includes a statement of accuracy. 7. Media (Photographs, Audio, Video) I have placed a completed SEI Tag on all the media evidence. I have placed a Pre-ID student label on all non-paper media evidence. I have placed a Pre-ID student label on all non-paper media evidence. All photographs have been captioned (required) to explain the activity occurring and the student's level of achievement. Video All photographs have been captioned (required) to explain the activity occurring and the student's level of achievement. Video All video clips are short and focus on the skill the student needs to demonstrate the ASOL. All video clips are recorded in the division's required format – check with School Coordinator (QuickTime, WMV, MJPG, AVI, MPEG4, ASF, DivX, etc.). All video clips are saved on the division's required outputs (CD-R, CD-RW, DVD-R, DVD-RW, VHS tapes, DV tapes, etc.). All audio clips are short and only focus on the skill the student needs to demonstrate for the ASOL. All audio clips are short and only focus on the skill the student needs to demonstrate for the ASOL. All audio clips are short and only focus on the skill the student needs to demonstrate for the ASOL. All					
Student's skill and proficiency is clear in the evidence. Evidence does not document developmental progress. Evidence to be submitted represents the student's best work. Evidence to be submitted represents the student's best work. Evidence to be submitted addresses all the skills listed within the ASOL stem and bullet, as appropriate. ASOL curriculum framework documents have been checked to determine the essential skills and knowledge required by the selected standard. See http://www.ttaconline.org Evidence to be submitted identifies any accommodations, supports and assistive technology devices that are a regular part of the student's daily instruction. Evidence submitted presents a positive image of the student. All student work has been graded (%, grade, amount correct, etc.) or includes a statement of accuracy. 7. Media (Photographs, Audio, Video) I have placed a completed SEI Tag on all the media evidence. I have placed a Pre-ID student label on all non-paper media evidence. I have checked with the building level administrator to make sure there is a media release signed and on file for this student. Captioned Photographs All photographs have been captioned (required) to explain the activity occurring and the student's level of achievement. Video	Ш	I have included all o	livision required forms in the collection.		
Student's skill and proficiency is clear in the evidence. Evidence does not document developmental progress. Evidence to be submitted represents the student's best work. Evidence to be submitted represents the student's best work. Evidence to be submitted addresses all the skills listed within the ASOL stem and bullet, as appropriate. ASOL curriculum framework documents have been checked to determine the essential skills and knowledge required by the selected standard. See http://www.ttaconline.org Evidence to be submitted identifies any accommodations, supports and assistive technology devices that are a regular part of the student's daily instruction. Evidence submitted presents a positive image of the student. All student work has been graded (%, grade, amount correct, etc.) or includes a statement of accuracy. 7. Media (Photographs, Audio, Video) I have placed a completed SEI Tag on all the media evidence. I have placed a Pre-ID student label on all non-paper media evidence. I have checked with the building level administrator to make sure there is a media release signed and on file for this student. Captioned Photographs All photographs have been captioned (required) to explain the activity occurring and the student's level of achievement. Video	6. Evid	ence			
 □ Evidence does not document developmental progress. □ Evidence to be submitted addresses all the skills listed within the ASOL stem and bullet, as appropriate. □ ASOL curriculum framework documents have been checked to determine the essential skills and knowledge required by the selected standard. See http://www.ttaconline.org □ Evidence to be submitted identifies any accommodations, supports and assistive technology devices that are a regular part of the student's daily instruction. □ Evidence submitted presents a positive image of the student. □ All student work has been graded (%, grade, amount correct, etc.) or includes a statement of accuracy. 7. Media (Photographs, Audio, Video) □ I have placed a completed SEI Tag on all the media evidence. □ I have placed a Pre-ID student label on all non-paper media evidence. □ I have checked with the building level administrator to make sure there is a media release signed and on file for this student. Caption=0 Photographs □ All photographs have been captioned (required) to explain the activity occurring and the student's level of achievement. Video □ All video clips are short and focus on the skill the student needs to demonstrate the ASOL. □ All video clips are recorded in the division's required format – check with School Coordinator (QuickTime, WMV, MJPG, AVI, MPEG4, ASF, DivX, etc.). □ All video clips are saved on the division's required outputs (CD-R, CD-RW, DVD-R, DVD-RW, VHS tapes, DV tapes, etc.). □ Videos have been checked to make sure they have been recorded correctly and work on multiple sources. □ Transcriptions of video evidence have been written and are included in the COE. Auli audio clips are recorded is the division's required format - check with School Coordinator (Cassette tapes, mp3, wav, etc.).			proficiency is clear in the evidence.		
Evidence to be submitted addresses all the skills listed within the ASOL stem and bullet, as appropriate. ASOL curriculum framework documents have been checked to determine the essential skills and knowledge required by the selected standard. See http://www.ttaconline.org Evidence to be submitted identifies any accommodations, supports and assistive technology devices that are a regular part of the student's daily instruction. Evidence submitted presents a positive image of the student. All student work has been graded (%, grade, amount correct, etc.) or includes a statement of accuracy. 7. Media (Photographs, Audio, Video) I have placed a completed SEI Tag on all the media evidence. I have placed a Pre-ID student label on all non-paper media evidence. I have placed a Pre-ID student label on all non-paper media evidence. All photographs have been captioned (required) to explain the activity occurring and the student's level of achievement. Video All photographs have been captioned (required) to explain the activity occurring and the student's level of achievement. Video All video clips are short and focus on the skill the student needs to demonstrate the ASOL. All video clips are recorded in the division's required format – check with School Coordinator (QuickTime, WMY, MJPG, AVI, MPEG4, ASF, DivX, etc.). Videos have been checked to make sure they have been recorded correctly and work on multiple sources. Transcriptions of video evidence have been written and are included in the COE. All audio clips are short and only focus on the skill the student needs to demonstrate for the ASOL. All audio clips are short and only focus on the skill the student needs to demonstrate for the ASOL. Transcriptions of video evidence have been written and are included in the COE. All audio clips are short and only focus on the skill the student needs to demonstrate for the ASOL. Transcriptions of audio evidence have been written and are included in the COE. Transcriptions of audio evi		*	•		
ASOL curriculum framework documents have been checked to determine the essential skills and knowledge required by the selected standard. See http://www.ttaconline.org Evidence to be submitted identifies any accommodations, supports and assistive technology devices that are a regular part of the student's daily instruction. Evidence submitted presents a positive image of the student. All student work has been graded (%, grade, amount correct, etc.) or includes a statement of accuracy. Nedia (Photographs, Audio, Video) I have placed a completed SEI Tag on all the media evidence. I have placed a Pre-ID student label on all non-paper media evidence. I have placed a Pre-ID student label on all non-paper media evidence. All photographs All photographs All photographs have been captioned (required) to explain the activity occurring and the student's level of achievement. Video All video clips are short and focus on the skill the student needs to demonstrate the ASOL. All video clips are recorded in the division's required format – check with School Coordinator (QuickTime, WMV, MJPG, AVI, MPEG4, ASF, DivX, etc.). All video clips are saved on the division's required outputs (CD-R, CD-RW, DVD-R, DVD-RW, VHS tapes, DV tapes, etc.). Videos have been checked to make sure they have been recorded correctly and work on multiple sources. Transcriptions of video evidence have been written and are included in the COE. All audio clips are recorded is the division's required format - check with School Coordinator (Cassette tapes, mp3, wav, etc.). All audio clips are recorded been written and are included in the COE.		Evidence to be subn	nitted represents the student's best work.		
ASOL curriculum framework documents have been checked to determine the essential skills and knowledge required by the selected standard. See http://www.ttaconline.org Evidence to be submitted identifies any accommodations, supports and assistive technology devices that are a regular part of the student's daily instruction. Evidence submitted presents a positive image of the student. All student work has been graded (%, grade, amount correct, etc.) or includes a statement of accuracy. Nedia (Photographs, Audio, Video) I have placed a completed SEI Tag on all the media evidence. I have placed a Pre-ID student label on all non-paper media evidence. I have placed a Pre-ID student label on all non-paper media evidence. All photographs All photographs All photographs have been captioned (required) to explain the activity occurring and the student's level of achievement. Video All video clips are short and focus on the skill the student needs to demonstrate the ASOL. All video clips are recorded in the division's required format – check with School Coordinator (QuickTime, WMV, MJPG, AVI, MPEG4, ASF, DivX, etc.). All video clips are saved on the division's required outputs (CD-R, CD-RW, DVD-R, DVD-RW, VHS tapes, DV tapes, etc.). Videos have been checked to make sure they have been recorded correctly and work on multiple sources. Transcriptions of video evidence have been written and are included in the COE. All audio clips are recorded is the division's required format - check with School Coordinator (Cassette tapes, mp3, wav, etc.). All audio clips are recorded been written and are included in the COE.			•		
regular part of the student's daily instruction. Evidence submitted presents a positive image of the student. All student work has been graded (%, grade, amount correct, etc.) or includes a statement of accuracy. Nedia (Photographs, Audio, Video) I have placed a completed SEI Tag on all the media evidence. I have placed a Pre-ID student label on all non-paper media evidence. I have placed a Pre-ID student label on all non-paper media evidence. All photographs All photographs have been captioned (required) to explain the activity occurring and the student's level of achievement. Video All video clips are short and focus on the skill the student needs to demonstrate the ASOL. All video clips are recorded in the division's required format – check with School Coordinator (QuickTime, WMV, MJPG, AVI, MPEG4, ASF, DivX, etc.). All video clips are saved on the division's required outputs (CD-R, CD-RW, DVD-R, DVD-RW, VHS tapes, DV tapes, etc.). Videos have been checked to make sure they have been recorded correctly and work on multiple sources. Transcriptions of video evidence have been written and are included in the COE. Audio All audio clips are recorded is the division's required format - check with School Coordinator (Cassette tapes, mp3, wav, etc.). Transcriptions of audio evidence have been written and are included in the COE.		ASOL curriculum fi	ramework documents have been checked to determine the essential skills and knowledge		
All student work has been graded (%, grade, amount correct, etc.) or includes a statement of accuracy. 7. Media (Photographs, Audio, Video) I have placed a completed SEI Tag on all the media evidence. I have placed a Pre-ID student label on all non-paper media evidence. I have checked with the building level administrator to make sure there is a media release signed and on file for this student. Captioned Photographs All photographs have been captioned (required) to explain the activity occurring and the student's level of achievement. Video All video clips are short and focus on the skill the student needs to demonstrate the ASOL. All video clips are recorded in the division's required format − check with School Coordinator (QuickTime, WMV, MJPG, AVI, MPEG4, ASF, DivX, etc.). All video clips are saved on the division's required outputs (CD-R, CD-RW, DVD-R, DVD-RW, VHS tapes, DV tapes, etc.). Videos have been checked to make sure they have been recorded correctly and work on multiple sources. Transcriptions of video evidence have been written and are included in the COE. Audio All audio clips are short and only focus on the skill the student needs to demonstrate for the ASOL. All audio clips are recorded is the division's required format - check with School Coordinator (Cassette tapes, mp3, wav, etc.). Transcriptions of audio evidence have been written and are included in the COE. 8. Other Recommended Steps I have shared my collection with fellow teachers for input.					
7. Media (Photographs, Audio, Video) ☐ I have placed a completed SEI Tag on all the media evidence. ☐ I have placed a Pre-ID student label on all non-paper media evidence. ☐ I have checked with the building level administrator to make sure there is a media release signed and on file for this student. Captioned Photographs ☐ All photographs have been captioned (required) to explain the activity occurring and the student's level of achievement. Video ☐ All video clips are short and focus on the skill the student needs to demonstrate the ASOL. ☐ All video clips are recorded in the division's required format – check with School Coordinator (QuickTime, WMV, MJPG, AVI, MPEG4, ASF, DivX, etc.). ☐ All video clips are saved on the division's required outputs (CD-R, CD-RW, DVD-R, DVD-RW, VHS tapes, DV tapes, etc.). ☐ Videos have been checked to make sure they have been recorded correctly and work on multiple sources. ☐ Transcriptions of video evidence have been written and are included in the COE. Audio ☐ All audio clips are short and only focus on the skill the student needs to demonstrate for the ASOL. ☐ All audio clips are recorded is the division's required format - check with School Coordinator (Cassette tapes, mp3, wav, etc.). ☐ Transcriptions of audio evidence have been written and are included in the COE. 8. Other Recommended Steps ☐ I have shared my collection with fellow teachers for input.		Evidence submitted	presents a positive image of the student.		
I have placed a completed SEI Tag on all the media evidence. I have placed a Pre-ID student label on all non-paper media evidence. I have checked with the building level administrator to make sure there is a media release signed and on file for this student. I have checked with the building level administrator to make sure there is a media release signed and on file for this student. All photographs		All student work ha	s been graded (%, grade, amount correct, etc.) or includes a statement of accuracy.		
I have placed a completed SEI Tag on all the media evidence. I have placed a Pre-ID student label on all non-paper media evidence. I have checked with the building level administrator to make sure there is a media release signed and on file for this student. I have checked with the building level administrator to make sure there is a media release signed and on file for this student. All photographs	7. Med	ia (Photographs, Au	dio, Video)		
I have placed a Pre-ID student label on all non-paper media evidence. I have checked with the building level administrator to make sure there is a media release signed and on file for this student. Captioned Photographs					
I have checked with the building level administrator to make sure there is a media release signed and on file for this student. Captioned Photographs		•	•		
Captioned Photographs All photographs have been captioned (required) to explain the activity occurring and the student's level of achievement. Video All video clips are short and focus on the skill the student needs to demonstrate the ASOL. All video clips are recorded in the division's required format − check with School Coordinator (QuickTime, WMV, MJPG, AVI, MPEG4, ASF, DivX, etc.). All video clips are saved on the division's required outputs (CD-R, CD-RW, DVD-R, DVD-RW, VHS tapes, DV tapes, etc.). Videos have been checked to make sure they have been recorded correctly and work on multiple sources. Transcriptions of video evidence have been written and are included in the COE. Audio All audio clips are short and only focus on the skill the student needs to demonstrate for the ASOL. All audio clips are recorded is the division's required format - check with School Coordinator (Cassette tapes, mp3, wav, etc.). Transcriptions of audio evidence have been written and are included in the COE.		I have checked with	• •		
□ All photographs have been captioned (required) to explain the activity occurring and the student's level of achievement. Video □ All video clips are short and focus on the skill the student needs to demonstrate the ASOL. □ All video clips are recorded in the division's required format – check with School Coordinator (QuickTime, WMV, MJPG, AVI, MPEG4, ASF, DivX, etc.). □ All video clips are saved on the division's required outputs (CD-R, CD-RW, DVD-R, DVD-RW, VHS tapes, DV tapes, etc.). □ Videos have been checked to make sure they have been recorded correctly and work on multiple sources. □ Transcriptions of video evidence have been written and are included in the COE. Audio □ All audio clips are short and only focus on the skill the student needs to demonstrate for the ASOL. □ All audio clips are recorded is the division's required format - check with School Coordinator (Cassette tapes, mp3, wav, etc.). □ Transcriptions of audio evidence have been written and are included in the COE. 8. Other Recommended Steps □ I have shared my collection with fellow teachers for input.	Caption				
□ All video clips are short and focus on the skill the student needs to demonstrate the ASOL. □ All video clips are recorded in the division's required format – check with School Coordinator (QuickTime, WMV, MJPG, AVI, MPEG4, ASF, DivX, etc.). □ All video clips are saved on the division's required outputs (CD-R, CD-RW, DVD-R, DVD-RW, VHS tapes, DV tapes, etc.). □ Videos have been checked to make sure they have been recorded correctly and work on multiple sources. □ Transcriptions of video evidence have been written and are included in the COE. Audio □ □ All audio clips are short and only focus on the skill the student needs to demonstrate for the ASOL. □ All audio clips are recorded is the division's required format - check with School Coordinator (Cassette tapes, mp3, wav, etc.). □ Transcriptions of audio evidence have been written and are included in the COE. 8. Other Recommended Steps □ I have shared my collection with fellow teachers for input.		All photographs hav	we been captioned (required) to explain the activity occurring and the student's level of		
□ All video clips are recorded in the division's required format – check with School Coordinator (QuickTime, WMV, MJPG, AVI, MPEG4, ASF, DivX, etc.). □ All video clips are saved on the division's required outputs (CD-R, CD-RW, DVD-R, DVD-RW, VHS tapes, DV tapes, etc.). □ Videos have been checked to make sure they have been recorded correctly and work on multiple sources. □ Transcriptions of video evidence have been written and are included in the COE. Audio All audio clips are short and only focus on the skill the student needs to demonstrate for the ASOL. □ All audio clips are recorded is the division's required format - check with School Coordinator (Cassette tapes, mp3, wav, etc.). □ Transcriptions of audio evidence have been written and are included in the COE. 8. Other Recommended Steps □ I have shared my collection with fellow teachers for input.	Video				
WMV, MJPG, AVI, MPEG4, ASF, DivX, etc.). □ All video clips are saved on the division's required outputs (CD-R, CD-RW, DVD-R, DVD-RW, VHS tapes, DV tapes, etc.). □ Videos have been checked to make sure they have been recorded correctly and work on multiple sources. □ Transcriptions of video evidence have been written and are included in the COE. Audio □ All audio clips are short and only focus on the skill the student needs to demonstrate for the ASOL. □ All audio clips are recorded is the division's required format - check with School Coordinator (Cassette tapes, mp3, wav, etc.). □ Transcriptions of audio evidence have been written and are included in the COE. 8. Other Recommended Steps □ I have shared my collection with fellow teachers for input.		All video clips are s	short and focus on the skill the student needs to demonstrate the ASOL.		
DV tapes, etc.). □ Videos have been checked to make sure they have been recorded correctly and work on multiple sources. □ Transcriptions of video evidence have been written and are included in the COE. Audio □ All audio clips are short and only focus on the skill the student needs to demonstrate for the ASOL. □ All audio clips are recorded is the division's required format - check with School Coordinator (Cassette tapes, mp3, way, etc.). □ Transcriptions of audio evidence have been written and are included in the COE. 8. Other Recommended Steps □ I have shared my collection with fellow teachers for input.					
□ Transcriptions of video evidence have been written and are included in the COE. Audio □ All audio clips are short and only focus on the skill the student needs to demonstrate for the ASOL. □ All audio clips are recorded is the division's required format - check with School Coordinator (Cassette tapes, mp3, wav, etc.). □ Transcriptions of audio evidence have been written and are included in the COE. 8. Other Recommended Steps □ I have shared my collection with fellow teachers for input.			saved on the division's required outputs (CD-R, CD-RW, DVD-R, DVD-RW, VHS tapes,		
Audio All audio clips are short and only focus on the skill the student needs to demonstrate for the ASOL. All audio clips are recorded is the division's required format - check with School Coordinator (Cassette tapes, mp3, wav, etc.). Transcriptions of audio evidence have been written and are included in the COE. 8. Other Recommended Steps I have shared my collection with fellow teachers for input.			hecked to make sure they have been recorded correctly and work on multiple sources.		
 □ All audio clips are short and only focus on the skill the student needs to demonstrate for the ASOL. □ All audio clips are recorded is the division's required format - check with School Coordinator (Cassette tapes, mp3, wav, etc.). □ Transcriptions of audio evidence have been written and are included in the COE. 8. Other Recommended Steps □ I have shared my collection with fellow teachers for input. 			•		
 □ All audio clips are recorded is the division's required format - check with School Coordinator (Cassette tapes, mp3, wav, etc.). □ Transcriptions of audio evidence have been written and are included in the COE. 8. Other Recommended Steps □ I have shared my collection with fellow teachers for input. 	Audio				
mp3, way, etc.). Transcriptions of audio evidence have been written and are included in the COE. 8. Other Recommended Steps I have shared my collection with fellow teachers for input.		All audio clips are s	short and only focus on the skill the student needs to demonstrate for the ASOL.		
 □ Transcriptions of audio evidence have been written and are included in the COE. 8. Other Recommended Steps □ I have shared my collection with fellow teachers for input. 			recorded is the division's required format - check with School Coordinator (Cassette tapes,		
☐ I have shared my collection with fellow teachers for input.			idio evidence have been written and are included in the COE.		
☐ I have shared my collection with fellow teachers for input.					
☐ I have shared my collection with fellow teachers for input.	8. Othe	er Recommended Ste	eps		
☐ Division or school administrator has reviewed my collections for input.					
		Division or school a	administrator has reviewed my collections for input.		

Virginia Alternate Assessment Program

2008-2009 Administrator Checklist for Collections of Evidence

School:	Teacher:		_Reviewer:		
Directions: Review each collection -) if the item is unsatisfactory.	of evidence for the	information in the	table below. Place	a (+) if the item is	satisfactory and a
Date:	Student 1:	Student 2:	Student 3:	Student 4:	Student 5:
Items to Review:					
Teacher affidavits signed, dated, and inserted in each content area.					
VAAP Content Area Cover Sheets have been included for each content area.					
All reporting categories for <i>Reading</i> have been addressed:					
1 Use word analysis strategies and information resources	Missing Reporting	Missing Reporting	Missing Reporting	Missing Reporting	Missing Reporting
2 Demonstrate comprehension of printed materials	Categories:	Categories:	Categories:	Categories:	Categories:
All reporting categories for <i>Mathematics</i> have been addressed:					
1 Number and Number Sense	Missing	Missing	Missing	Missing	Missing
2 Computation and Estimation	Reporting Categories:				
3 Measurement and Geometry					
4 Probability and Statistics					
5 Patterns, Functions, and Algebra					
All reporting categories for <i>Science</i> have been addressed:					
1 Scientific Investigation and Resources	Missing Reporting	Missing Reporting	Missing Reporting	Missing Reporting	Missing Reporting
2 Forces, Motion, Energy, and Matter	Categories:	Categories:	Categories:	Categories:	Categories:
3 Life Processes and Living Systems, Life Science, Earth Science					
4 Interrelations in Earth/Space Systems, Earth Patterns, Cycles, and Changes					
All reporting categories for History/Social Science have been addressed:	Missing	Missing	Missing	Missing	Missing
1 History	Reporting	Reporting	Reporting	Reporting	Reporting
2 Geography	Categories:	Categories:	Categories:	Categories:	Categories:
3 Civics					
4 Economics					

Virginia Alternate Assessment Program

2008-2009 Administrator Checklist for Collections of Evidence

School:Te	Teacher:			Reviewer:			
	Student 1:	Student 2:	Student 3:	Student 4:	Student 5:		
Each piece of evidence to be scored has an SEI Tag attached.							
SEI Tags match content areas and reporting categories for all pieces of evidence.							
Each SEI Tag contains an ASOL number and bullet, if appropriate.							
All photographs are captioned and describe the activity occurring and the student's level of achievement.							
All student work submitted has been graded and clearly indicates the student's level of performance.							
All electronic media has written transcriptions that detail student performance.							
Submitted evidence addresses the essential skills and knowledge required by the ASOLs.							
Evidence submitted represents the student's best work.							
All division required forms have been included:							
1. 2.							
Critical issues to be resolved before collections are submitted to the Division Director of Testing:		,	'	1	'		

Property of the Virginia Department of Education

©2008 by the Commonwealth of Virginia, Department of Education, P.O. Box 2120, Richmond, Virginia 23218-2120. All rights reserved. Except as permitted by law, this material may not be reproduced or used in any form or by any means, electronic or mechanical, including photocopying or recording, or by any information storage or retrieval system, without written permission from the copyright owner. Commonwealth of Virginia public school educators may reproduce any portion of this manual for non-commercial educational purposes without requesting permission. All others should direct their written requests to the Virginia Department of Education, Division of Student Assessment and School Improvement, at the above address or by e-mail to: Student_Assessment@doe.virginia.gov.

Printed in the United States of America.

